

Signage & Wayfinding

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VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION STANDARDS

NAME	DESCRIPTION	ENGLISH
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	8/8/1995
E-161	W-SHAPED STEEL SIGN POST	8/18/1995
E-162	TUBULAR ALUMINUM SIGN POST	5/20/1999
E-163	TUBULAR STEEL SIGN POST	5/20/1999
E-164	SQUARE STEEL SIGN POST	6/8/2009
T-1	TRAFFIC CONTROL GENERAL NOTES CONVENTIONAL ROADS CONSTRUCTION APPROACH	8/6/2012
T-10	SIGNING	8/6/2012
T-28	CONSTRUCTION SIGN DETAILS	8/6/2012
T-29	CONSTRUCTION SIGN DETAILS	8/6/2012
T-30	CONSTRUCTION SIGN DETAILS	8/6/2012
T-31	CONSTRUCTION SIGN DETAILS	8/6/2012
T-33	MISCELLANEOUS SIGN DETAILS	8/6/2012
T-45	SQUARE TUBE SIGN POST AND ANCHOR	1/2/2013

PLANS PREPARED BY:

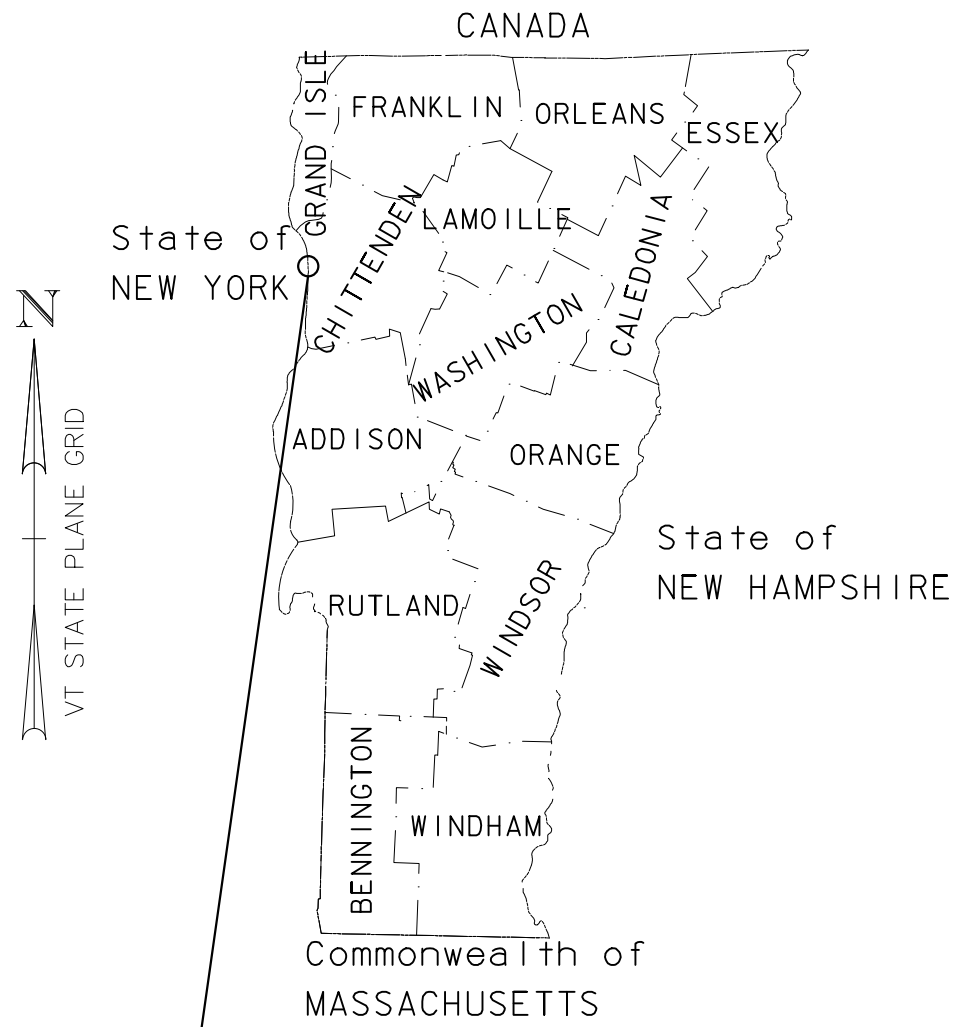
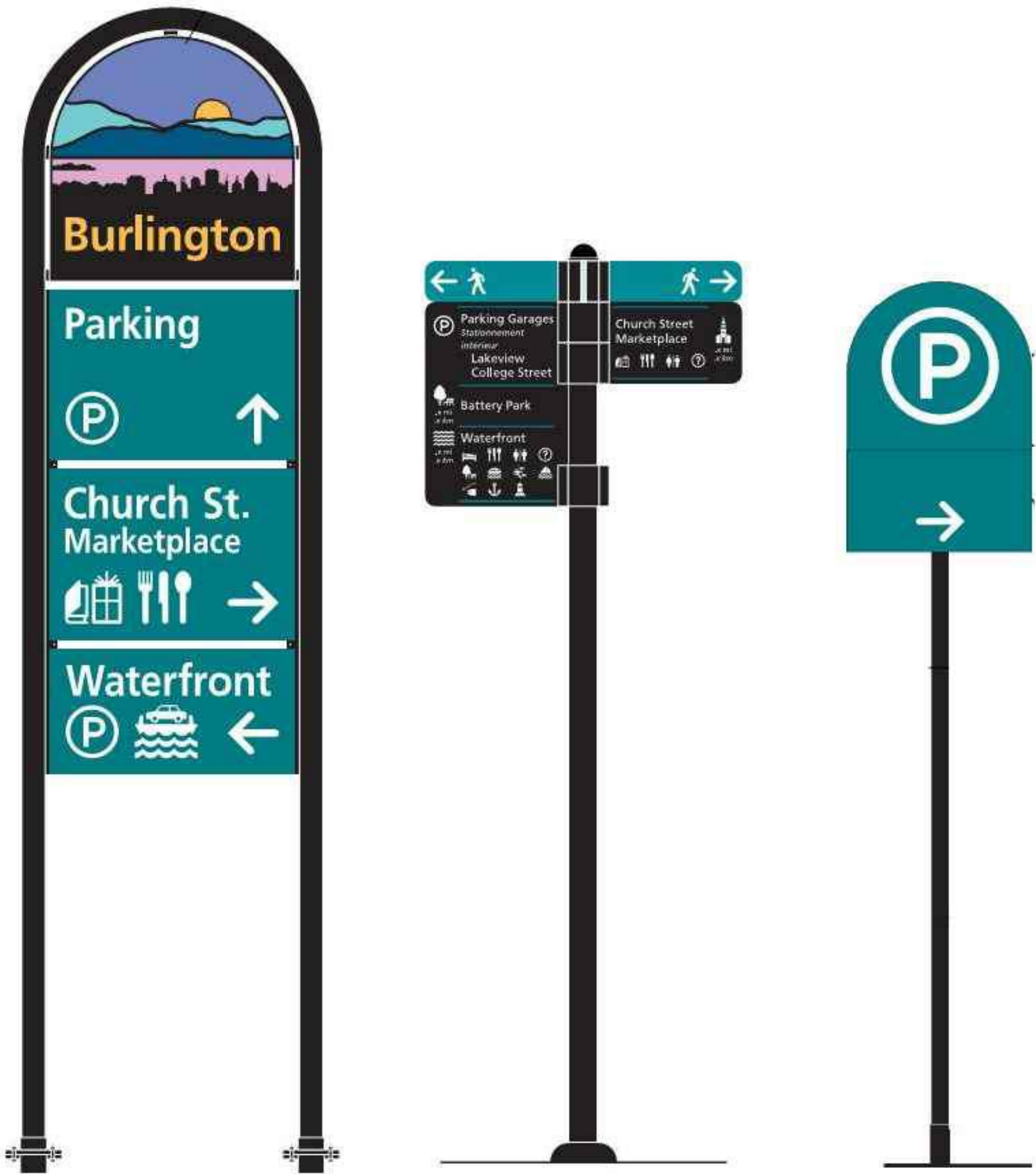


CONVENTIONAL SYMBOLS

COUNTY LINE		COUNTY LINE	
TOWN LINE		TOWN LINE	
LIMITS OF ACCESS			
POINT OF ACCESS			
FENCE LINE			
STONE WALL			
TRAVELED WAY			
GUARD RAIL			
RAILROAD			
SURVEY LINE			
CULVERT			
POWER POLE			
TELEPHONE POLE			
TREES			
WETLANDS			
6 (f) PROPERTY			
CONTROL OF ACCESS			
PROPERTY LINE			
SLOPE RIGHTS			
TOP OF CUT			
TOE OF SLOPE			

PROPOSED IMPROVEMENTS
BURLINGTON WAYFINDING IMPROVEMENTS
CITY OF BURLINGTON
COUNTY OF CHITTENDEN

PROJECT LOCATION:	VARIOUS LOCATIONS THROUGHOUT THE CITY OF BURLINGTON, VERMONT
PROJECT DESCRIPTION:	FABRICATION AND INSTALLATION OF VARIOUS WAYFINDING SIGNS AND STRUCTURES
LENGTH OF PROJECT:	NOT APPLICABLE



PROJECT LOCATION
BURLINGTON WAYFINDING
IMPROVEMENTS
STP 5000 (17)



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

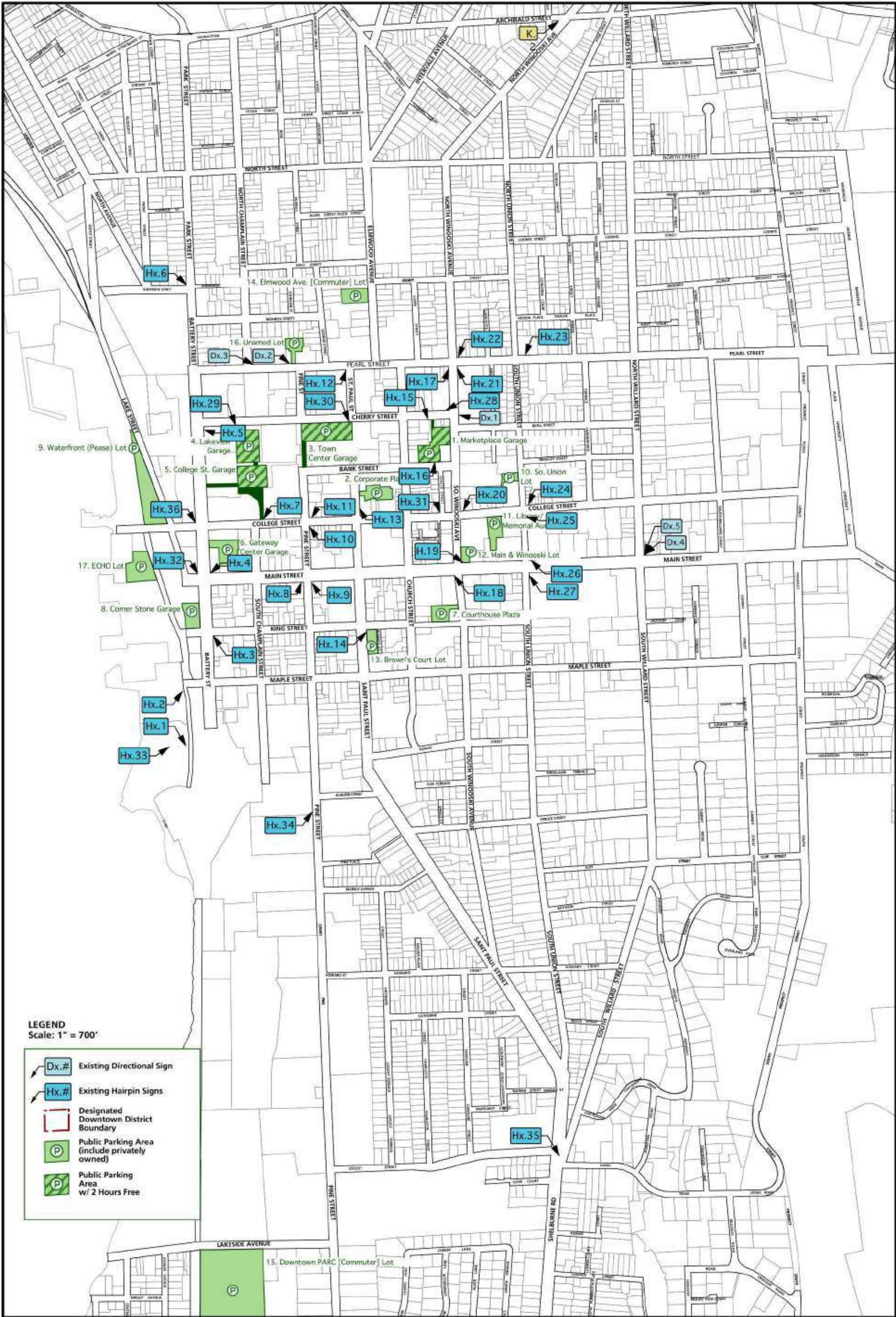
CONTRACT (100%) PLANS
JUNE 2014

CITY OF BURLINGTON
DIRECTOR OF PUBLIC WORKS
APPROVED _____ DATE _____

PROJECT NAME: WATERFRONT N. ACCESS
PROJECT NUMBERS: STP 5000 (17)
SHEET G0.0

Notes:
1. Contractor shall remove and dispose of all existing hairpin and directional signs.

A.1 EXISTING CONDITIONS MAP



**BURLINGTON WAYFINDING
IMPROVEMENTS**
STP 5000 (17)
BURLINGTON, VERMONT

CITY OF BURLINGTON
Community & Economic Development Office
Burlington City Hall
149 Church Street
Burlington, VT 05401
Ph: (802) 865-7144

Department of Public Works
PO Box 649
Burlington, VT 05402
Ph: (802) 863-9094

VT AGENCY OF TRANSPORTATION
Local Transportation Facilities
National Life Building, Drawer 33
Montpelier, VT 05633

FEDERAL HIGHWAY ADMINISTRATION
P. O. Box 568
Montpelier, VT 05601-0568

DESIGN TEAM

LandWorks
228 Maple St., Suite 32
Middlebury, VT 05753
802.388.3011

Resource Systems Group
55 Railroad Row
White River Junction, VT 05001
802.295.4999

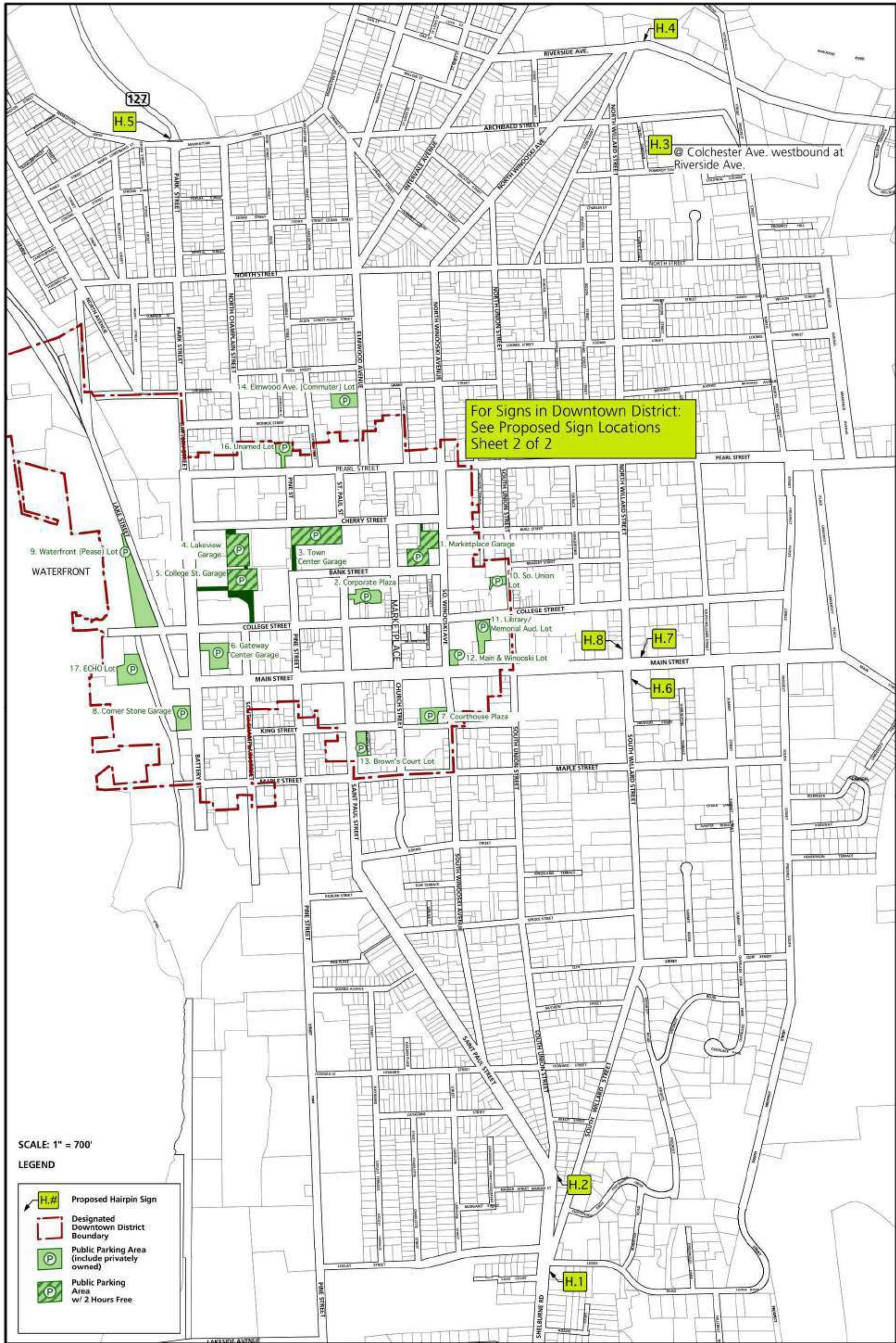
REVISIONS

DATE	DESCRIPTION	BY

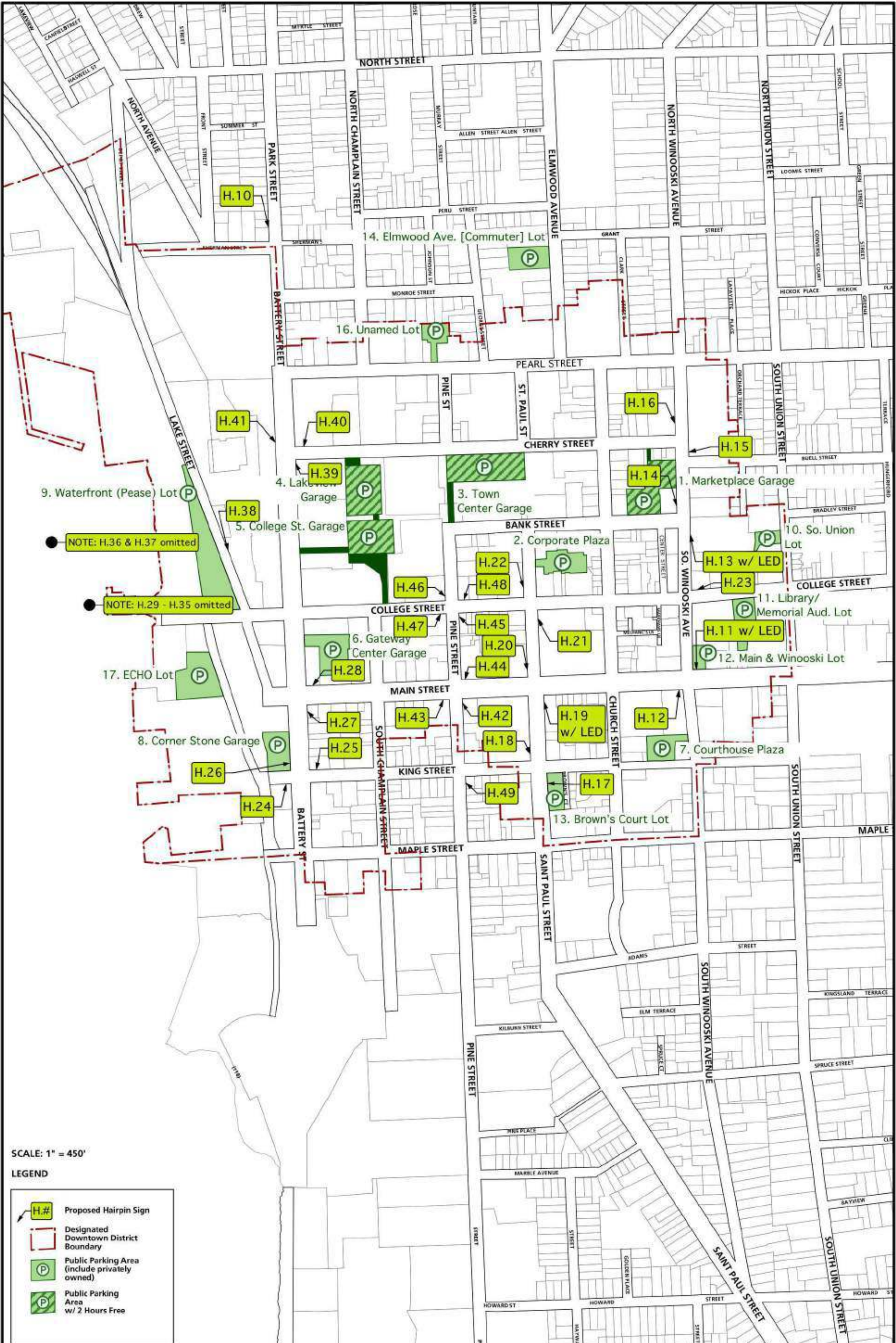
WAYFINDING SIGNS
EXISTING CONDITIONS
SIGN LOCATIONS

SCALE: N.T.S. SHEET
DESIGNED BY: DJG
DRAWN BY: CDM
CHECKED BY: DJG
DATE: 06/20/14
PROJ. NO.: STP5000 (17)

PROPOSED HAIRPIN SIGN LOCATIONS (Sheet 1 of 2)



PROPOSED HAIRPIN SIGN LOCATIONS (Sheet 2 of 2)



**BURLINGTON WAYFINDING
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REVISIONS

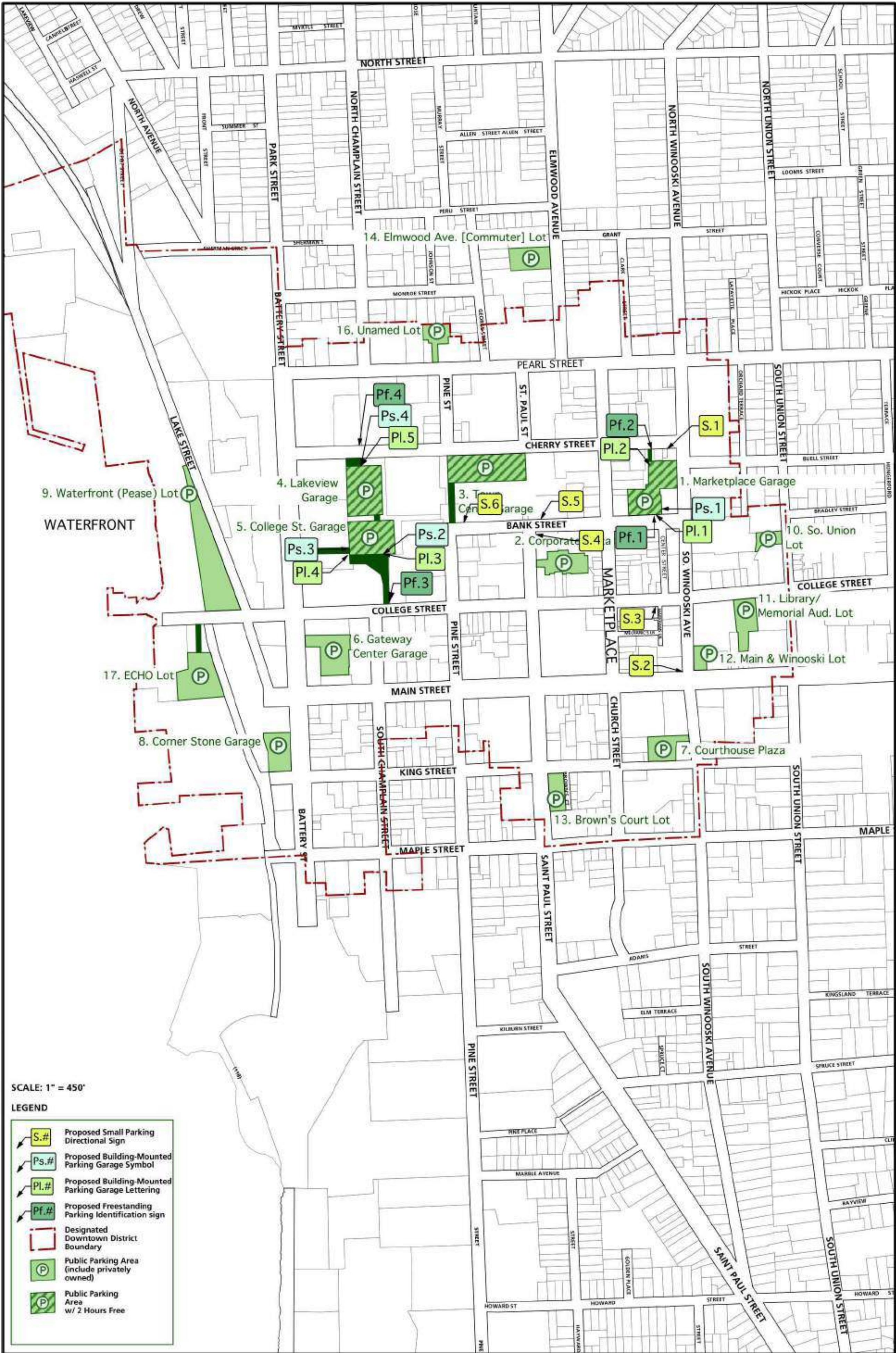
DATE	DESCRIPTION	BY

WAYFINDING SIGNS
PROPOSED HAIRPIN
SIGN LOCATIONS

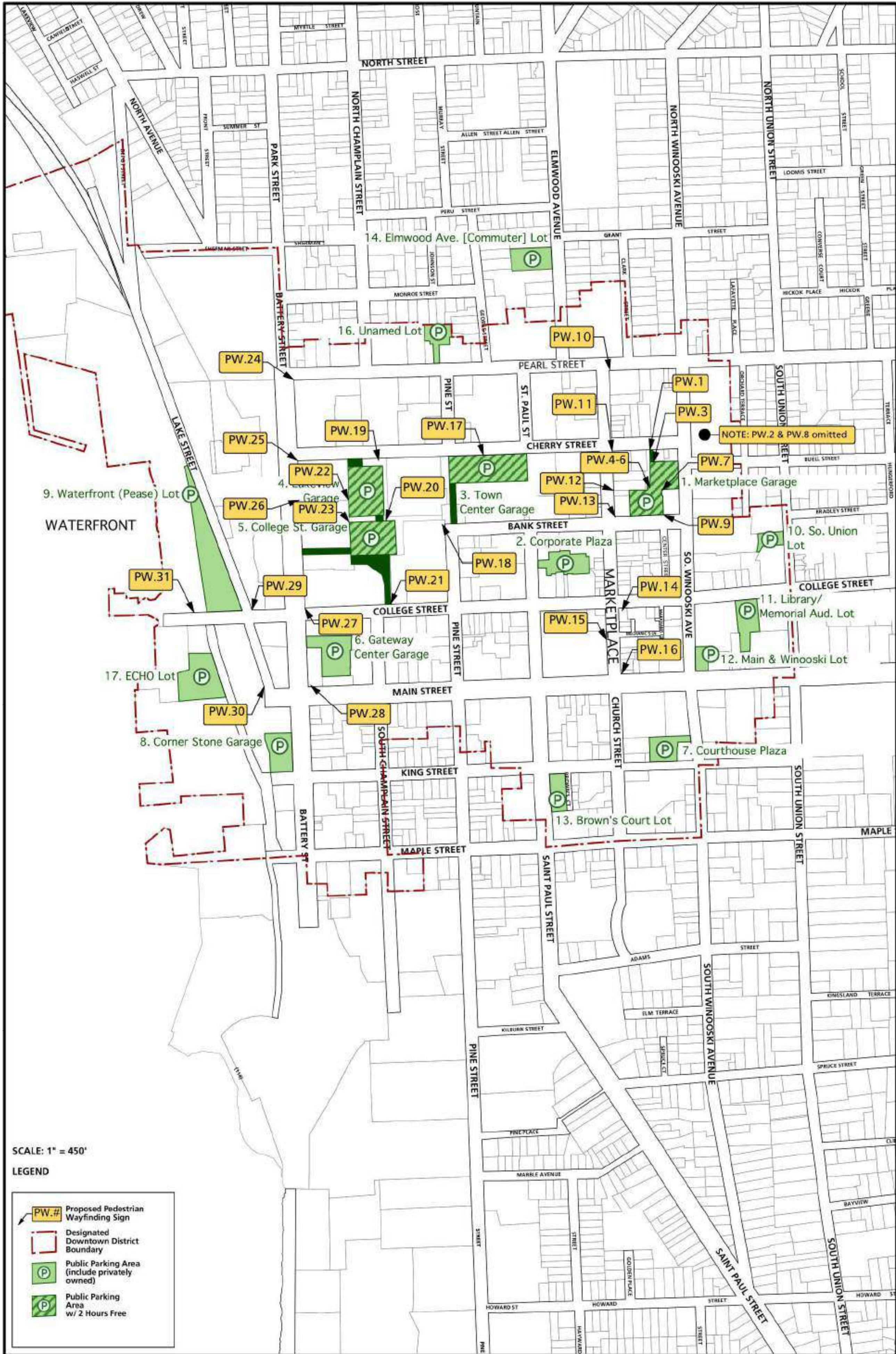
SCALE: N.T.S. SHEET
DESIGNED BY: DJG
DRAWN BY: CDM
CHECKED BY: DJG
DATE: 06/20/14
PROJ. NO.: STP5000 (17)

62.1

PROPOSED PARKING FACILITY and SMALL DIRECTIONAL SIGN LOCATIONS (Sheet 1 of 1)



PROPOSED PEDESTRIAN WAYFINDING SIGN LOCATIONS (Sheet 1 of 1)



BURLINGTON WAYFINDING IMPROVEMENTS
STP 5000 (17)
BURLINGTON, VERMONT

CITY OF BURLINGTON
Community & Economic Development Office
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DESIGN TEAM

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Middlebury, VT 05753
802.388.3011

Resource Systems Group
55 Railroad Row
White River Junction, VT 05001
802.295.4999

REVISIONS

DATE	DESCRIPTION	BY

**WAYFINDING SIGNS
PROPOSED PARKING
AND PEDESTRIAN
SIGN LOCATIONS**

SCALE: 1" = 450'
DESIGNED BY: DJG
DRAWN BY: CDM
CHECKED BY: DJG
DATE: 06/20/14
PROJ. NO.: STP5000 (17)

TRAFFIC SIGN SUMMARY SHEET 1



BURLINGTON WAYFINDING
IMPROVEMENTS
STP 5000 (17)
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802.295.4999

REVISIONS

DATE	DESCRIPTION	BY

TRAFFIC
SIGN SUMMARY
SHEET 1

SCALE:	N. T. S.	SHEET
DESIGNED BY:	DJG	TSSSI
DRAWN BY:	CDM	
CHECKED BY:	DJG	
DATE:	06/20/14	
PROJ. NO.:	STP5000 (17)	

SEE PLAN SHEETS FOR DETAILS ON SIGN GRAPHICS, POSTS, LOCATIONS, AND OTHER DETAILS.
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".
ALL SIGNS SHALL BE COMPLIANT WITH THE CONTRACT PLANS AND SPECIFICATIONS, LATEST MUTCD AND VTRANS STANDARDS.

TRAFFIC SIGN SUMMARY SHEET 2

Sign Number	Sign Legend	Sign Dimensions			New & Salvages Signs				Exist Post		No. of Posts	Flanged Channel			New Sign Posts				sign frame required	Remarks	Sign Detail					
		EA	Width, in	Height, in	"A"	"B"	Salv Sign	Salv TIS	Retain	Salvage		lb/ft			Tubular Aluminum (in)			Found-ation			Tubular Steel (in)					
												1.12	2	3	3	4	4.0mod				3	3.5	4	5		
H.13 south-facing	[Downtown Logo] Parking [parking symbol] w/ LED Church St. Marketplace [shopping and dining symbols]	1 1 1	30 30 30	30 21 21	5.62 4.38 4.38						2				X			2						S. Winooski Ave. northbound. In advance of intersection with Bank St. LED arrow linked to Marketplace Garage: left when open & straight when full		
H.14 north-facing	[Downtown Logo] Parking [parking symbol] Church St. Marketplace [shopping and dining symbols]	1 1 1	30 30 30	30 21 21	5.62 4.38 4.38						2				X			2						So. Winooski southbound In advance of intersection with Bank St.		
H.15 south-facing	[Downtown Logo] Parking [parking symbol] Church St. Marketplace [shopping and dining symbols] Waterfront [parking and waterfront symbols]	1 1 1 1	30 30 30 30	30 21 21 15.5	5.62 4.38 4.38 3.23						2				X			2						S. Winooski Ave. northbound. In advance of intersection with Cherry St. Remove existing Dx.1 (on traffic signal arm)		
H.16 north-facing	[Downtown Logo] Parking [parking symbol] Church St. Marketplace [shopping and dining symbols] Waterfront [parking and waterfront symbols]	1 1 1 1	30 30 30 30	30 21 21 15.5	5.62 4.38 4.38 3.23						2				X			2						S. Winooski Ave. southbound. In advance of intersection with Cherry St. Remove existing Hx.28		
H.17 south-facing	[Downtown Logo] Church St. Marketplace [shopping and dining symbols] Waterfront [parking and ferry symbols] Parking [parking symbol]	1 1 1 1	30 30 30 30	30 21 15.5 15.5	5.62 4.38 3.23 3.23						2				X			2						Saint Paul St. northbound In advance of intersection with King St.		
H.18 north-facing	[Downtown Logo] Parking [parking symbol] Ferry [ferry symbol] Waterfront [parking and waterfront symbols]	1 1 1 1	30 30 30 30	30 15.5 15.5 15.5	5.62 3.23 3.23 3.23						2				X			2						Saint Paul St. southbound In advance of intersection with King St. Remove existing Hx.14		
H.19 south-facing	[Downtown Logo] Parking [parking symbol] w/ LED Church St. Marketplace [shopping and dining symbols] Waterfront [parking and waterfront symbols]	1 1 1 1	30 30 30 30	30 21 21 15.5	5.62 4.38 4.38 3.23						2				X			2						Saint Paul St. northbound In advance of intersection with Main St. LED arrow linked to Marketplace Garage: right when open and left when full		
H.20 north-facing	[Downtown Logo] [Parking Symbol] Parking Church St. Marketplace [shopping and dining symbols] Waterfront [parking and waterfront symbols]	1 1 1 1	30 30 30 30	30 21 21 15.5	5.62 4.38 4.38 3.23						2				X			2						Saint Paul St. southbound In advance of intersection with Main St.		
H.21 south-facing	[Downtown Logo] Parking [parking symbol] [parking symbol] Church St. Marketplace [shopping and dining symbols] Waterfront [parking and waterfront symbols]	1 1 1 1 1	30 30 30 30 30	30 21 21 21 15.5	5.62 4.38 4.38 4.38 3.23						2				X			2						Saint Paul St. northbound In advance of intersection with College St.		
H.22 north-facing	[Downtown Logo] Parking [parking symbol] Church St. Marketplace [shopping and dining symbols] Waterfront [parking and waterfront symbols]	1 1 1 1	30 30 30 30	30 21 21 15.5	5.62 4.38 4.38 3.23						2				X			2						Saint Paul St. southbound In advance of intersection with College St.		
H.23 east-facing west-facing	[Downtown Logo] Parking [parking symbol] Church St. Marketplace [shopping and dining symbols] Waterfront [parking and waterfront symbols] [Downtown Logo] Campus District [campus symbol]	1 1 1 1 1 1	30 30 30 30 30 30	30 21 21 15.5 30 21	5.62 4.38 4.38 3.23 5.62 4.38						2				X			2						College St. westbound In advance of intersection with South Winooski Ave. Remove existing Hx.20		
H.24 west-facing	[Waterfront Logo] Church St. Marketplace [shopping and dining symbols] Parking [parking symbol]	1 1 1	30 30 30	30 21 21	5.62 4.38 4.38						2				X			2						King St. eastbound/from ferry dock In advance of intersection with Battery St. Remove existing Hx.3		
H.25 east-facing	[Waterfront Logo] Ferry [ferry symbol] Parking [parking symbol]	1 1 1	30 30 30	30 15.5 21	5.62 3.23 4.38						2				X			2						King St. westbound In advance of intersection with Battery St.		

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BURLINGTON WAYFINDING
IMPROVEMENTS
STP 5000 (17)
BURLINGTON, VERMONT

CITY OF BURLINGTON
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Department of Public Works
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VT AGENCY OF TRANSPORTATION
Local Transportation Facilities
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Montpelier, VT 05633

FEDERAL HIGHWAY ADMINISTRATION
P. O. Box 568
Montpelier, VT 05601-0568

DESIGN TEAM

LandWorks
228 Maple St., Suite 32
Middlebury, VT 05753
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Resource Systems Group
55 Railroad Row
White River Junction, VT 05001
802.295.4999

REVISIONS

DATE	DESCRIPTION	BY

TRAFFIC
SIGN SUMMARY
SHEET 2

SCALE: N. T. S. SHEET
DESIGNED BY: DJG
DRAWN BY: CDM
CHECKED BY: DJG
DATE: 06/20/14
PROJ. NO.: STP5000 (17)

TSSS2

TRAFFIC SIGN SUMMARY SHEET 3

Sign Number	Sign Legend	Sign Dimensions			New & Salvages Signs				Exist Post		Flanged Channel			New Sign Posts				Tubular Steel (in)					sign frame required	Remarks	Sign Detail					
		EA	Width, in	Height, in	"A"	"B"	Salv Sign	Salv TIS	Retain	Salvage	No. of Posts	lb/ft			Tubular Aluminum (in)			lb/ft				Found-ation			7.6	9	10.8	14.6	Detail on Sheet No.	Std. Sheet Number
												1.12	2	3	3	4	4.0mod	1.3	1.7	1.7										
H.26 north-facing	[Waterfront Logo] Ferry [ferry symbol] →	1 1	30 30	30 15.5	5.62 3.23						2					X				2						Battery St. westbound In advance of intersection with King St.				
H.27 south-facing	[Waterfront Logo]	1	30	30	5.62						2					X				2						Battery St. northbound In advance of intersection with Main St.				
	Waterfront [parking and waterfront symbols]	1	30	15.5	3.23																									
	Parking [parking symbol]	1	30	21	4.38																									
	Church St. Marketplace [shopping and dining symbols]	→	1	30	21	4.38																								
H.28 east-facing	[Waterfront Logo]	1	30	30	5.62						2					X				2						Main St. westbound In advance of intersection with Battery St.				
	Waterfront [parking and waterfront symbols]	1	30	15.5	3.23																									
	Parking [parking symbol]	→	1	30	21	4.38																								
	Ferry [ferry symbol]	←	1	30	15.5	3.23																								
H.38 south-facing	[Waterfront Logo] Bus Only [Bus symbol] ←	1 1	30 30	30 15.5	5.62 3.23						2					X				2						Lake St. Northbound In advance of Waterfront (Pease) Lot				
H.39 south-facing	[Waterfront Logo]	1	30	30	5.62						2					X				2						Battery St. northbound In advance of intersection with Cherry St.				
	Parking [parking symbol]	→	1	30	21	4.38																								
	Church St. Marketplace [shopping and dining symbols]	→	1	30	21	4.38																								
	Old North End District	↑	1	30	21	4.38																								
H.40 east-facing	[Waterfront Logo]	1	30	30	5.62						2					X				2						Cherry St. westbound In advance of intersection with Battery St.				
	Waterfront [parking and waterfront symbols]	←	1	30	15.5	3.23																								
	Ferry [ferry symbol]	←	1	30	15.5	3.23																								
	Old North End District	→	1	30	21	4.38																								
H.41 north-facing	[Waterfront Logo]	1	30	30	5.62						2					X				2						Battery St. southbound In advance of intersection with Cherry St.				
	Parking [parking symbol]	←	1	30	21	4.38																								
	Church St. Marketplace [shopping and dining symbols]	←	1	30	21	4.38																								
	Waterfront [parking and waterfront symbols]	↑	1	30	15.5	3.23																								
H.42 south-facing	[Downtown Logo]	1	30	30	5.62						2					X				2						Pine St. northbound In advance of intersection with Main St.				
	Parking [parking symbol]	↑	1	30	21	4.38																								
	Church St. Marketplace [shopping and dining symbols]	→	1	30	21	4.38																								
	Waterfront [parking and ferry symbols]	←	1	30	15.5	3.23																								
H.43 west-facing	[Downtown Logo]	1	30	30	5.62						2					X				2						Main St. eastbound In advance of intersection with Pine St.				
	Church St. Marketplace [shopping and dining symbols]	1	30	21	4.38																									
	Parking [parking symbol]	←↑	1	30	21	4.38																								
H.44 east-facing	[Downtown Logo]	1	30	30	5.62						2					X				2						Main St. westbound In advance of intersection with Pine St.				
	Waterfront [parking and waterfront symbols]	↑	1	30	15.5	3.23																								
	Ferry [ferry symbol]	↑	1	30	15.5	3.23																								
	Parking [parking symbol]	→	1	30	21	4.38																								
H.45 south-facing	[Downtown Logo]	1	30	30	5.62						2					X				2						Pine St. northbound In advance of intersection with College St.				
	Parking [parking symbol]	↑←	1	30	21	4.38																								
	Waterfront [parking and waterfront symbols]	←	1	30	15.5	3.23																								
	Church St. Marketplace [shopping and dining symbols]	→	1	30	21	4.38																								
H.46 north-facing	[Downtown Logo]	1	30	30	5.62						2					X				2						Pine St. southbound In advance of intersection with College St.				
	Parking [parking symbol]	→	1	30	21	4.38																								
	Waterfront [parking and waterfront symbols]	→	1	30	15.5	3.23																								
	Church St. Marketplace [shopping and dining symbols]	←	1	30	21	4.38																								
H.47 west-facing	[Downtown Logo]	1	30	30	5.62						2					X				2						College St. eastbound In advance of intersection with Pine St.				
	Church St. Marketplace [shopping and dining symbols]	↑	1	30	21	4.38																								
	Campus District [campus symbol]	↑	1	30	21	4.38																								
	Parking [parking symbol]	←	1	30	21	4.38																								
H.48 east-facing	[Downtown Logo]	1	30	30	5.62						2					X				2						College St. westbound In advance of intersection with Pine St.				
	Parking [parking symbol]	↑→	1	30	21	4.38																								
	Waterfront [parking and waterfront symbols]	↑	1	30	15.5	3.23																								
	Ferry [ferry symbol]	↑	1	30	15.5	3.23																								
H.49 east-facing	[Downtown Logo]	1	30	30	5.62						2					X				2						Pine St. northbound In advance of intersection with King St.				
	Parking [parking symbol]	↑	1	30	21	4.38																								
	Ferry [ferry symbol] U	←	1	30	15.5	3.23																								

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DESIGN TEAM

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White River Junction, VT 05001
802.295.4999

REVISIONS

DATE	DESCRIPTION	BY

TRAFFIC
SIGN SUMMARY
SHEET 3

SCALE:	N. T. S.	SHEET
DESIGNED BY:	DJG	
DRAWN BY:	CDM	
CHECKED BY:	DJG	
DATE:	06/20/14	
PROJ. NO.:	STP5000 (17)	

TSSS3

TRAFFIC SIGN SUMMARY SHEET 4



BURLINGTON WAYFINDING
IMPROVEMENTS
STP 5000 (17)
BURLINGTON, VERMONT

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REVISIONS

DATE	DESCRIPTION	BY

TRAFFIC
SIGN SUMMARY
SHEET 4

SCALE:	N. T. S.	SHEET
DESIGNED BY:	DJG	TSS4
DRAWN BY:	CDM	
CHECKED BY:	DJG	
DATE:	06/20/14	
PROJ. NO.:	STP5000 (17)	

Sign Number	Sign Legend	Sign Dimensions			New & Salvages Signs				Exist Post	No. of Posts	Flanged Channel			New Sign Posts			Tubular Steel (in)				sign frame required	Remarks	Sign Detail	
		EA	Width, in	Height, in	"A"	"B"	Salv Sign	Salv TIS			1.12	lb/ft	2	3	Tubular Aluminum (in)			Foundation	Tubular Steel (in)					
															3	4	4.0mod		3	3.5			4	5
	Small Directional Signs																							
S.1 west-facing	[parking symbol header] →	1 1	18 18	16.5 10	1.82 1.25					1												Cherry St.westbound In advance of intersection with So. Winooski Ave.		
S.2 north-facing	[parking symbol header] →	1 1	18 18	16.5 10	1.82 1.25					1												S. Winooski Ave. southbound In advance of intersection with Main St.		
S.3 west-facing	[parking symbol header] ←	1 1	18 18	16.5 10	1.82 1.25					1												College St. eastbound In advance of intersection with Center St. Remove existing sign		
S.4 south-facing	[parking symbol header] ↔	1 1	18 18	16.5 10	1.82 1.25					1												Saint Paul St. northbound In advance of intersection with Bank St.		
S.5 east-facing	[parking symbol header] [\$ symbol]	1 1 1	18 18 18	16.5 10 8	1.82 1.25 1					1												Bank St. westbound In advance of intersection with Saint Paul St.		
S.6 east-facing	[parking symbol header] ↔	1 1	18 18	16.5 10	1.82 1.25					1												Bank St. westbound In advance of intersection with Pine St.		
	Pedestrian Signs																							
PW.1 west-facing	[pedestrian symbol] [arrow] Church Street Marketplace [marketplace symbol] [amenity symbol set] Waterfront [waterfront symbol] [amenity symbol set] [.63 miles]	1 1	21 21	6 24	0.88 3.5									X		1						Marketplace Garage; At Cherry Street end of red sidewalk along north entrance drive; On curb island between red sidewalk and entrance drive. Freestanding.		
PW.3 south-facing east-facing	[pedestrian symbol] [arrow] Elevators <i>Ascenseurs</i> [elevator symbol] [pedestrian symbol] [arrow] Stairs <i>Escaliers</i> [stair symbol] NO Loitering, Skateboarding, Rollerblading [symbols] Please walk bicycles [symbol]	1 1 1	14 14 14	16 12	1.56 1.17									X		1						Marketplace Garage; Cherry Street tower; On north side of concrete column between tower and entrance drive. Remove existing blue and white sign		
PW.4 north-facing west-facing south-facing	[pedestrian symbol] [arrow] Waterfront [waterfront symbol] [amenity symbol set] [.58 miles] [pedestrian symbol] [arrow] Church Street Marketplace [marketplace symbol] [amenity symbol set]	1	21	36	5.25									X		1						Marketplace Garage; Church Street tower; On west-facing wall opposite tower door; Right of or above opening into garage. Remove existing blue and white sign		
PW.5 west-facing	[pedestrian symbol] [arrow] Church Street Marketplace [marketplace symbol] [amenity symbol set]	1	21	16	2.33									X		1						Marketplace Garage; Church Street tower; On north-facing wall at east end of alley. Remove existing blue and white sign		
PW.6 north-facing	[pedestrian symbol] [arrow] Elevators <i>Ascenseurs</i> [elevator symbol] Stairs <i>Escaliers</i> [stair symbol] NO Loitering, Skateboarding, Rollerblading [symbols] Please walk bicycles [symbol]	1 1	21 21	16 18	2.33 2.63									X		1						Marketplace Garage; Church Street tower; On west-facing wall at east end of alley Remove existing blue and white sign		
PW.7 west-facing south-facing	[pedestrian symbol] [arrow] Elevators <i>Ascenseurs</i> [elevator symbol] Church Street Marketplace [marketplace symbol] [amenity symbol set] [pedestrian symbol] [arrow] Stairs <i>Escaliers</i> [stair symbol] NO Loitering, Skateboarding, Rollerblading [symbols] Please walk bicycles [symbol]	1 1	21 21	32 18	4.67 2.63									X		1						Marketplace Garage; On east facing wall above or left of opening at end of alley from S. Winooski Avenue. Remove existing blue and white sign		
PW.9 west-facing	[pedestrian symbol] [arrow] Church Street Marketplace [marketplace symbol] [amenity symbol set] Waterfront [waterfront symbol] [amenity symbol set] [.56 miles]	1 1	21 21	6 24	0.88 3.5																	Marketplace Garage; At Bank Street end of walkway from Bank St. tower;SE corner of garage; Mount above walkway on brick wall.		

SEE PLAN SHEETS FOR DETAILS ON SIGN GRAPHICS, POSTS, LOCATIONS, AND OTHER DETAILS.
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TRAFFIC SIGN SUMMARY SHEET 5

Sign Number	Sign Legend	Sign Dimensions			New & Salvages Signs				Exist Post	No. of Posts	Flanged Channel			New Sign Posts				sign frame required	Remarks	Sign Detail																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		EA	Width, in	Height, in	"A"	"B"	Salv Sign	Salv TIS			1.12	2	3	Tubular Aluminum (in)			Foundation			Tubular Steel (in)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
														3	4	4.0mod				3	3.5	4	5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
												lb/ft					7.6	9	10.8	14.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

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**BURLINGTON WAYFINDING
IMPROVEMENTS**
STP 5000 (17)
BURLINGTON, VERMONT

CITY OF BURLINGTON
Community & Economic Development Office
Burlington City Hall
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PO Box 649
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VT AGENCY OF TRANSPORTATION
Local Transportation Facilities
National Life Building, Drawer 33
Montpelier, VT 05633

FEDERAL HIGHWAY ADMINISTRATION
P. O. Box 568
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DESIGN TEAM

LandWorks
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Middlebury, VT 05753
802.388.3011

Resource Systems Group
55 Railroad Row
White River Junction, VT 05001
802.295.4999

REVISIONS

DATE	DESCRIPTION	BY

TRAFFIC
SIGN SUMMARY
SHEET 5

SCALE:	N. T. S.	SHEET
DESIGNED BY:	DJG	TSSS5
DRAWN BY:	CDM	
CHECKED BY:	DJG	
DATE:	06/20/14	
PROJ. NO.:	STP5000 (17)	

TRAFFIC SIGN SUMMARY SHEET 6

Sign Number	Sign Legend	Sign Dimensions			New & Salvages Signs				Exist Post		Flanged Channel			New Sign Posts				Tubular Steel (in)				sign frame required	Remarks	Sign Detail		
		EA	Width, in	Height, in	"A"	"B"	Salv Sign	Salv TIS	Retain	Salvage	No. of Posts	lb/ft			Tubular Aluminum (in)			Found-ation	lb/ft					Detail on Sheet No.	Std. Sheet Number	
												1.12	2	3	3	4	4.0mod		7.6	9	10.8					14.6
PW.16 north-facing east-facing west-facing	[pedestrian symbol] [arrow]	1	21	6	0.88										X		1					Church Street Marketplace; At Main Street on Northeast Corner				
	Information [information symbol]	1	21	18	2.63																					
	Restrooms <i>Toilettes</i> [restrooms symbol]																									
	In City Hall																									
	Bus Station [bus symbol]	1	21	6	0.88																					
	[pedestrian symbol] [arrow]	1	21	6	0.88																					
	Campus District [campus symbol] [.58 miles]	1	21	6	0.88																					
	[pedestrian symbol] [arrow]	1	21	6	0.88																					
	Waterfront [waterfront symbol] [amenity symbol set] [.50 miles]	1	21	12	1.75																					
PW.17 east-facing west-facing	[pedestrian symbol] [arrow]	1	21	6	0.88										X		1					Town Center Garage; At Cherry Street entrance/exit; East side of garage access This sign is to be installed by the property owner.				
	Church Street Marketplace [marketplace symbol] [amenity symbol set]	1	21	12	1.75																					
	[pedestrian symbol] [arrow]	1	21	6	0.88																					
	Battery Park [park symbol]	1	21	18	2.63																					
	Waterfront [waterfront symbol] [amenity symbol set] [.46 miles]																									
PW.18 east-facing northwest-facing	[pedestrian symbol] [arrow]	1	21	6	0.88										X		1					Town Center Garage; At Bank Street entrance/exit; Aligned with crosswalk/sidewalk on north side of Bank Street; Adjacent to sidewalk into Town Center on west side of entrance/exit drive; NW panel pointed toward recreation path between buildings Post height increased due to non 90 degree angles requierd (panels must be mounted above/below one another; not at same top level)				
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.15 miles]	1	21	12	1.75																					
	[pedestrian symbol] [arrow]	1	21	6	0.88																					
	Parking Garages <i>Stationnement intérieur</i> [parking symbol]	1	21	30	4.38																					
	Lakeview College Street																									
	Battery Park [park symbol] [.33 miles]																									
PW.19 east-facing west-facing	Waterfront [waterfront symbol] [amenity symbol set] [.35 miles]																									
	[pedestrian symbol] [arrow]	1	21	6	0.88										X		1					Lakeview Garage; At Cherry Street entrance/exit; East side of garage access Coordinate sign location w/ City of Burlington prior to installation.				
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.21 miles]	1	21	12	1.75																					
	[pedestrian symbol] [arrow]	1	21	6	0.88																					
	Battery Park [symbol]	1	21	18	2.63																					
Waterfront [waterfront symbol] [amenity symbol set] [.37 miles]																										
PW.20 east-facing west-facing	[pedestrian symbol] [arrow]	1	21	6	0.88										X		1					Lakeview Garage and College Street Garage connection; On rec path between garages Avoid conflict with existing bike route sign				
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.23 miles]	1	21	12	1.75																					
	[pedestrian symbol] [arrow]	1	21	6	0.88																					
	Battery Park [park symbol]	1	21	18	2.63																					
	Waterfront [symbol set]																									
PW.21 east-facing west-facing	[pedestrian symbol] [arrow]	1	21	6	0.88										X		1					College Street Garage; At College Street end of entrance/exit drive Avoid conflict with proposed sign Pf.3				
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.21 miles]	1	21	18	2.63																					
	Campus District [campus symbol] [.81 miles]																									
	[pedestrian symbol] [arrow]	1	21	6	0.88																					
	Waterfront [waterfront symbol] [amenity symbol set]	1	21	12	1.75																					
PW.22 south-facing west-facing	[pedestrian symbol] [arrow]	1	21	6	0.88										X		1					Recreation path between College Street Garage and Lakeview Garage; At corner in path along west side of Lakeview Garage				
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.28 miles]	1	21	12	1.75																					
	[pedestrian symbol] [arrow]	1	21	6	0.88																					
	Battery Park [park symbol]	1	21	18	2.63																					
	Waterfront [waterfront symbol] [amenity symbol set]																									
PW.23 north-facing east-facing	[pedestrian symbol] [arrow]	1	21	6	0.88										X		1					Recreation path between College Street Garage and Lakeview Garage; At Northwest corner of College Street Garage. Mount on Existing Light Post.				
	Battery Park [park symbol]	1	21	18	2.63																					
	Waterfront [waterfront symbol] [amenity symbol set]																									
	[pedestrian symbol] [arrow]	1	21	6	0.88																					
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.26 miles]	1	21	12	1.75																					

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BURLINGTON WAYFINDING
IMPROVEMENTS
STP 5000 (17)
BURLINGTON, VERMONT

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Burlington City Hall
149 Church Street
Burlington, VT 05401
Ph: (802) 865-7144

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PO Box 649
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VT AGENCY OF TRANSPORTATION
Local Transportation Facilities
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DESIGN TEAM

LandWorks
228 Maple St., Suite 32
Middlebury, VT 05753
802.388.3011

Resource Systems Group
55 Railroad Row
White River Junction, VT 05001
802.295.4999

REVISIONS

DATE	DESCRIPTION	BY

TRAFFIC
SIGN SUMMARY
SHEET 5

SCALE:	N. T. S.	SHEET
DESIGNED BY:	DJG	TSSS5
DRAWN BY:	CDM	
CHECKED BY:	DJG	
DATE:	06/20/14	
PROJ. NO.:	STP5000 (17)	

TRAFFIC SIGN SUMMARY SHEET 7

Sign Number	Sign Legend	Sign Dimensions			New & Salvages Signs				Exist Post	Salvage	No. of Posts	Flanged Channel			New Sign Posts				Foundation	Tubular Steel (in)					sign frame required	Remarks	Sign Detail	
		EA	Width, in	Height, in	"A"	"B"	Salv Sign	Salv TIS				lb/ft	2	3	Tubular Aluminum (in)			Tubular Steel (in)				Detail on Sheet No.	Std. Sheet Number					
															3	4	4.0mod	3		3.5	4			5				
												1.12			1.3	1.7	1.7		7.6	9	10.8	14.6						
PW.24	[pedestrian symbol] [arrow]	1	21	6	0.88											X		1							Battery Street and Pearl Street; Southeast corner of intersection			
south-facing	Waterfront [waterfront symbol] [amenity symbol set]	1	21	30	4.38																							
	Parking Garages Stationnement intérieur [parking symbol]																											
	Burlington Town Center																											
	Lakeview																											
east-facing	College Street																											
	[pedestrian symbol] [arrow]	1	21	6	0.88																							
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.30 miles]	1	21	18	2.63																							
	Campus District [campus symbol] [.90 miles]																											
west-facing	[pedestrian symbol] [arrow]	1	21	6	0.88																							
	Battery Park [park symbol]	1	21	6	0.88																							
PW.25	[pedestrian symbol] [arrow]	1	21	6	0.88											X		1								Battery Street and Cherry Street; Southeast corner of intersection		
south-facing	Waterfront [waterfront symbol] [amenity symbol set]	1	21	24	3.5																							
	College Street Garage [parking symbol]																											
east-facing	[pedestrian symbol] [arrow]	1	21	6	0.88																							
	Parking Garages Stationnement intérieur [parking symbol]	1	21	24	3.5																							
	Town Center																											
	Lakeview																											
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.30 miles]	1	21	6	0.88																							
west-facing	[pedestrian symbol] [arrow]	1	21	6	0.88																							
	Battery Park [park symbol]	1	21	6	0.88																							
PW.26	[pedestrian symbol] [arrow]	1	21	6	0.88											X		1								Battery Street; At recreation path between hotels		
north-facing	Battery Park [park symbol]	1	21	24	3.5																							
	Burlington Town Center Garage [parking symbol]																											
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.33 miles]																											
south-facing	[pedestrian symbol] [arrow]	1	21	6	0.88																							
	Waterfront [waterfront symbol] [amenity symbol set]	1	21	12	1.75																							
east-facing	[pedestrian symbol] [arrow]	1	21	6	0.88																							
	Lakeview Garage [parking symbol]	1	21	6	0.88																							
PW.27	[pedestrian symbol] [arrow]	1	21	6	0.88											X		1								Battery Street and College Street; northern side of intersection		
north-facing	Battery Park [park symbol]	1	21	18	2.63																							
	Parking Garages Stationnement intérieur [parking symbol]																											
	Lakeview																											
	Burlington Town Center																											
south-facing	[pedestrian symbol] [arrow]	1	21	6	0.88																							
	Union Station [RR symbol]	1	21	12	1.75																							
	Ferry [ferry symbol] [.30 miles]																											
east-facing	[pedestrian symbol] [arrow]	1	21	6	0.88																							
	College Street Garage [parking symbol]	1	21	24	3.5																							
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.30 miles]																											
	Campus District [campus symbol] [.90 miles]																											
west-facing	[empty bracket for temporary event panel]																											
	[pedestrian symbol] [arrow]	1	21	6	0.88																							
	Waterfront [waterfront symbol] [amenity symbol set w/o ferry symbol]	1	21	12	1.75																							
PW.28	[pedestrian symbol] [arrow]	1	21	6	0.88											X		1								Battery Street and Main Street; Northeast corner of intersection.		
north-facing	Battery Park [park symbol]	1	21	18	2.63																							
	Parking Garages [parking symbol]																											
	College Street																											
	Lakeview																											
	Burlington Town Center																											
south-facing	[pedestrian symbol] [arrow]	1	21	6	0.88																							
	Ferry [ferry symbol]	1	21	6	0.88																							
east-facing	[pedestrian symbol] [arrow]	1	21	6	0.88																							
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.31 miles]	1	21	18	2.63																							
	Campus District [campus symbol] [.91 miles]																											
west-facing	[pedestrian symbol] [arrow]	1	21	6	0.88																							
	Union Station [RR symbol]	1	21	18	2.63																							
	Waterfront [waterfront symbol] [amenity symbol set w/o ferry symbol]																											

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Montpelier, VT 05601-0568

DESIGN TEAM

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Middlebury, VT 05753
802.388.3011

Resource Systems Group
55 Railroad Row
White River Junction, VT 05001
802.295.4999

REVISIONS

DATE	DESCRIPTION	BY

TRAFFIC
SIGN SUMMARY
SHEET 7

SCALE:	N. T. S.	SHEET
DESIGNED BY:	DJG	TSSST
DRAWN BY:	CDM	
CHECKED BY:	DJG	
DATE:	06/20/14	
PROJ. NO.:	STP5000 (17)	

TRAFFIC SIGN SUMMARY SHEET 8



BURLINGTON WAYFINDING
IMPROVEMENTS
STP 5000 (17)
BURLINGTON, VERMONT

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Montpelier, VT 05601-0569

DESIGN TEAM

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Middlebury, VT 05753
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Resource Systems Group
55 Railroad Row
White River Junction, VT 05001
802.295.4999

REVISIONS

DATE	DESCRIPTION	BY

TRAFFIC
SIGN SUMMARY
SHEET 8

SCALE:	N. T. S.	SHEET
DESIGNED BY:	DJG	TSSS8
DRAWN BY:	CDM	
CHECKED BY:	DJG	
DATE:	06/20/14	
PROJ. NO.:	STP5000 (17)	

Sign Number	Sign Legend	Sign Dimensions			New & Salvages Signs				Exist Post	No. of Posts	Flanged Channel			New Sign Posts			Tubular Steel (in)				sign frame required	Remarks	Sign Detail	
		EA	Width, in	Height, in	"A"	"B"	Salv Sign	Salv TIS			1.12	lb/ft	2	3	Tubular Aluminum (in)			Found-ation	3	3.5			4	5
															3	4	4.0mod							
								Retain	Salvage														Detail on Sheet No.	Std. Sheet Number
PW.29 northwest-facing southwest-facing east-facing west-facing	[pedestrian symbol] [arrow]	1	21	6	0.88									X		1					College Street and Lake Street; NE corner of intersection Post height increased due to non-90° angles required (panels must be mounted above/below one another; not at same top level) and for empty bracket for temporary event panel Avoid conflict w/ Main Street Landing sign			
	Skate Park [skateboard symbol]	1	21	12	1.75																			
	Dog Park [dog symbol]																							
	[pedestrian symbol] [arrow]	1	21	6	0.88																			
	Union Station [RR symbol]	1	21	12	1.75																			
	Ferry [ferry symbol] [.30 miles]																							
	[pedestrian symbol] [arrow]	1	21	6	0.88																			
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.35 miles]	1	21	18	2.63																			
	Campus District [campus symbol] [.95 miles]																							
	[empty bracket for temporary event panel]																							
	[pedestrian symbol] [arrow]	1	21	6	0.88																			
	Restrooms <i>Toilettes</i> [restrooms symbol]	1	21	48	7																			
	Information [information symbol]																							
	ECHO Lake Aquarium and Science Center [ECHO symbol]																							
Leahy Ctr. for Lake Champlain																								
Waterfront Park [park symbol]																								
Municipal Boat Slips [marina symbol]																								
Community Boathouse [boat symbol]																								
Fishing Pier [fishing symbol]																								
Navy Memorial [memorial symbol]																								
PW.30 northwest-facing east-facing	[empty bracket for temporary event panel]													X		1					Lake Street and Union Station; Install on west side of Lake Street. Post height increased 6" for empty bracket for temporary event panel			
	[pedestrian symbol] [arrow]	1	21	6	0.88																			
	Waterfront [waterfront symbol] [amenity symbol set w/o ferry symbol]	1	21	12	1.75																			
	[pedestrian symbol] [arrow]	1	21	6	0.88																			
	Ferry [ferry symbol]	1	21	24	3.5																			
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.33 miles]																							
Campus District [campus symbol] [.93 miles]																								
PW.31 northwest-facing south-facing east-facing west-facing	[empty bracket for temporary event panel]													X		1					College Street at Waterfront; In landscape island opposite sidewalk along east side of ECHO Post height increased due to non-90 degree angles required (panels must be mounted above/below one another; not at same top level) and for empty bracket for temporary event panel. Avoid conflict w/ proposed College Street Project signage and w/ proposed Leahy Center sign.			
	[pedestrian symbol] [arrow]	1	21	6	0.88																			
	Waterfront Promenade [promenade symbol]	1	21	6	0.88																			
	[pedestrian symbol] [arrow]	1	21	6	0.88																			
	Hoehl Park [park symbol]	1	21	12	1.75																			
	Navy Memorial [memorial symbol]																							
	[pedestrian symbol] [arrow]	1	21	6	0.88																			
	Restrooms <i>Toilettes</i> [restrooms symbol]	1	21	24	3.5																			
	Information [information symbol]																							
	Church Street Marketplace [marketplace symbol] [amenity symbol set] [.40 miles]																							
	Campus District [campus symbol] [1.0 mile]																							
	[pedestrian symbol] [arrow]	1	21	6	0.88																			
	Municipal Boat Slips [marina symbol]	1	21	24	3.5																			
	Community Boathouse [boat symbol]																							
Restrooms <i>Toilettes</i> [restrooms symbol]																								
Fishing Pier [fishing symbol]																								
	Parking Signs																							
Pf.1 east/west facing	[parking symbol]	1	36	156																	Marketplace garage. Freestanding. At Bank St. entrance. Pay for under pay item 900.620 S.P. (Parking ID Freestanding Sign) Remove existing Hx.16			
	[LED [Open/Full] [LED multi-directional arrow] [LED directional message]																							
Pl.1 south-facing	Marketplace Garage	1	132	16																	Marketplace Garage. Building mounted. Above Bank St. entrance. Remove existing 2 hrs. free and clearance signs Paid for under pay item 900.620 S.P. (Internally Illuminated Sign) Non-illuminated sign paid for under item 675.20			
	Maximum Height 7 ft (2.13 m)	1	96	8	5.33																			
Ps.1 north/fouth facing	[parking symbol] B-B	1	72" Diameter																		Marketplace Garage. Building mounted. Projecting from east side of Bank St. tower. Paid for under pay item 900.620 S.P. (Internally Illuminated Sign)			
Pf.2 east/west facing	[parking symbol]	1	36	156																	Marketplace Garage. Freestanding. At Cherry St. entrance. Pay for under pay item 900.620 S.P. (Parking ID Freestanding Sign) Remove existing Hx.15			
	[LED [Open/Full] [LED multi-directional arrow] [LED directional message]																							

SEE PLAN SHEETS FOR DETAILS ON SIGN GRAPHICS, POSTS, LOCATIONS, AND OTHER DETAILS.
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".
ALL SIGNS SHALL BE COMPLIANT WITH THE CONTRACT PLANS AND SPECIFICATIONS, LATEST MUTCD AND VTRANS STANDARDS.

TRAFFIC SIGN SUMMARY SHEET 9

Sign Number	Sign Legend	Sign Dimensions			New & Salvages Signs				Exist Post	No. of Posts	Flanged Channel			New Sign Posts			Tubular Steel (in)				sign frame required	Remarks	Sign Detail	
		EA	Width, in	Height, in	"A"	"B"	Salv Sign	Salv TIS			1.12	lb/ft	2	3	Tubular Aluminum (in)			Found-ation	Tubular Steel (in)					
															3	4	4.0mod		3	3.5			4	5
Pl.2 north-facing	Marketplace Garage Maximum Height 7 ft (2.13 m)	1	132	16																	Marketplace Garage, Building mounted, Above Cherry St. entrance. Remove existing 2 hrs. free and clearance signs Paid for under pay item 900.620 S.P. (Internally Illuminated Sign) Non-illuminated sign paid for under item 675.20			
Pf.3 east/west facing	[parking symbol] [LED (Open/Full)] [LED multi-directional arrow] [LED directional message]	1	36	156																	College St. Garage, Freestanding, At College St. entrance Pay for under pay item 900.620 S.P. (Parking ID Freestanding Sign) Remove existing Hx.17. Remove portion of existing concrete wall (and/or evaluate installation options prior to fabrication)			
Pl.3 south-facing	College Street Garage	1	240	28																	College St. Garage, Building mounted On south wall at end of College St. access drive. Paid for under pay item 900.620 S.P. (Internally Illuminated Sign)			
Ps.2 south-facing	[parking symbol]	1	54" Diameter																		College St. Garage, Building mounted, On south wall at end of College St. access drive, Building mounted. Paid for under pay item 900.620 S.P. (Internally Illuminated Sign)			
Pl.4 west-facing	College Street Garage Maximum Height 6'-5" (2 m) Exit Do Not Enter [do not enter symbols]	1	150	16																	Combined with Ps.3, College St. Garage, Building mounted, Above Battery St. access drive. Remove existing 2 hrs. free and clearance signs Paid for under pay item 900.620 S.P. (Internally Illuminated Sign) Non-illuminated sign paid for under item 675.20			
		1	96	8	5.33																			
		1	96	8	5.33																			
Ps.3 west-facing	[parking symbol]	1	8" Diameter																		College St. Garage, Building mounted, Above Battery St. access drive, Combined with Pl.4 Paid for under pay item 900.620 S.P. (Internally Illuminated Sign)			
Pf.4 east/west facing	[parking symbol] [LED (Open/Full)] [LED multi-directional arrow] [LED directional message]	1	36	156																	Lakeview Garage, Freestanding, At College St. entrance Pay for under pay item 900.620 S.P. (Parking ID Freestanding Sign) Remove existing Hx.17 Coordinate sign location w/ City of Burlington prior to installation.			
Pl.5 north-facing	Lakeview Garage Maximum Height 6'-5" (2 m) Exit Do Not Enter [do not enter symbols]	1	132	16																	Paid for under pay item 900.620 S.P. (Internally Illuminated Sign) Lakeview Garage, Mounted on existing metal structure. Coordinate sign location w/ City of Burlington prior to installation. Non-illuminated signs paid for under pay item 675.20.			
		1	96	8	5.33																			
		1	96	8	5.33																			
Ps.4 east/west facing	[parking symbol] B-B	1	6" Diameter																		Lakeview Garage, Building mounted, Projecting from north wall of top deck, Coordinate location w/ City of Burlington prior to instal- lation. Paid for under item 900.620 S.P. (Internally Illuminated Sign)			

SEE PLAN SHEETS FOR DETAILS ON SIGN GRAPHICS, POSTS, LOCATIONS, AND OTHER DETAILS.
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".
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BURLINGTON WAYFINDING
IMPROVEMENTS
STP 5000 (17)
BURLINGTON, VERMONT

CITY OF BURLINGTON
Community & Economic Development Office
Burlington City Hall
149 Church Street
Burlington, VT 05401
Ph: (802) 865-7144

Department of Public Works
PO Box 649
Burlington, VT 05402
Ph: (802) 863-9094

VT AGENCY OF TRANSPORTATION
Local Transportation Facilities
National Life Building, Drawer 33
Montpelier, VT 05633

FEDERAL HIGHWAY ADMINISTRATION
P. O. Box 568
Montpelier, VT 05601-0568

DESIGN TEAM

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Resource Systems Group
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White River Junction, VT 05001
802.295.4999

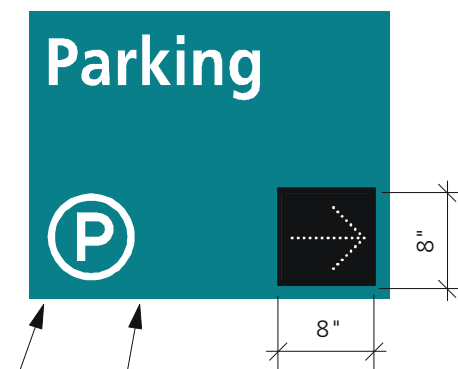
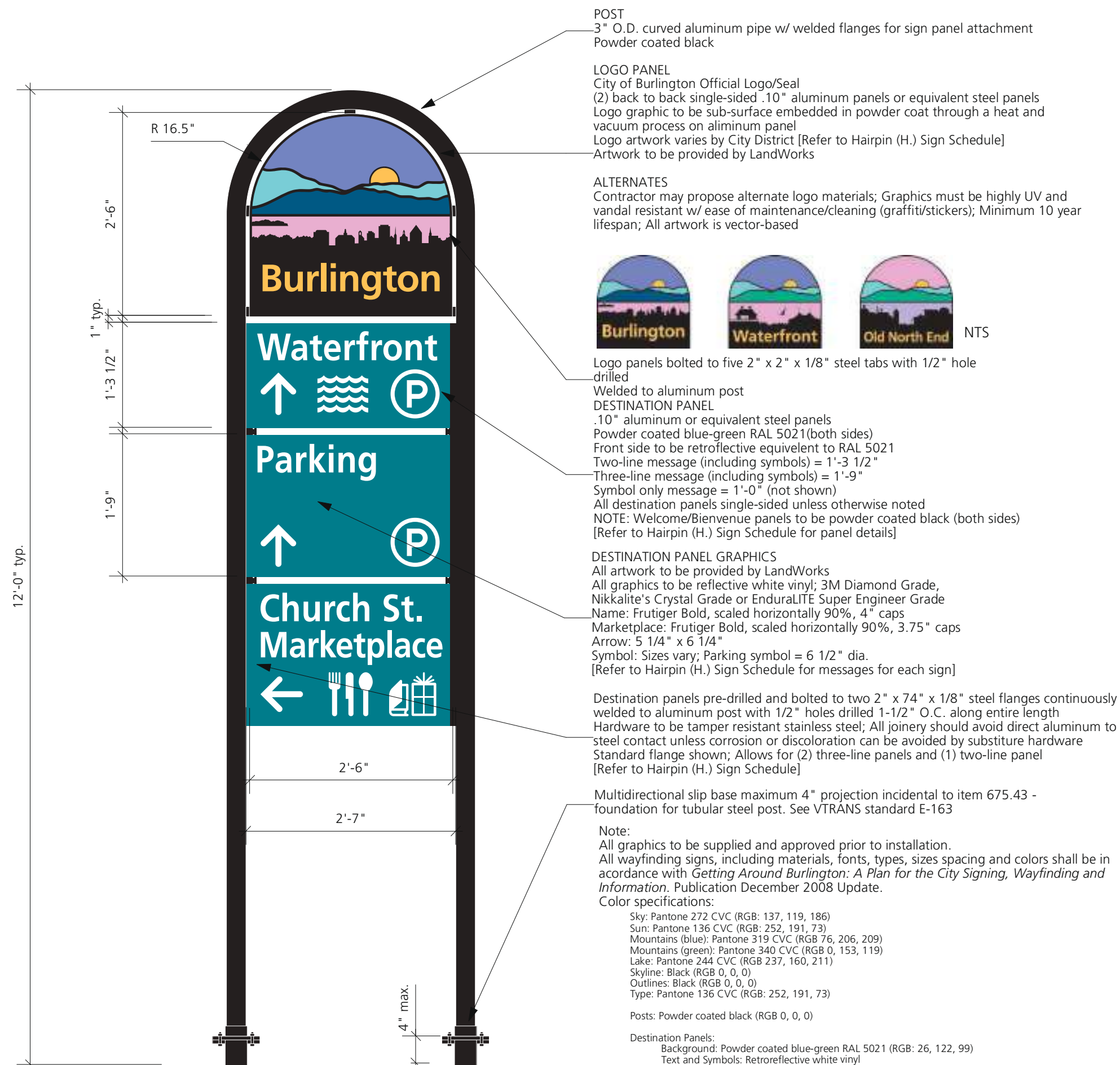
REVISIONS

DATE	DESCRIPTION	BY

TRAFFIC
SIGN SUMMARY
SHEET 9

SCALE: N. T. S. SHEET
DESIGNED BY: DJG
DRAWN BY: CDM
CHECKED BY: DJG
DATE: 06/20/14
PROJ. NO.: STP5000 (17)

TSSS9



Typical destination panel
w/ integrated LED
—multi-directional arrow
display; 2 1/2" thick LED
cabinet

—NOTES re: LED DISPLAYS

Display to be 1 row of super bright, narrow viewing angle LEDs in bright white
Messages "blankout" when turned off, eliminating confusion, with long life, solid state lighting
Electrical: Integrated solid state power supply, photocell for auto photodimming
standard voltage 120 VAC, UL/CUL approved for wet locations
Construction: Single faced sign, cabinet to be 10 gauge aluminum with welded seams, continuous hinged door with stainless steel door clamps, face material to be impact resistant, smoke tinted Polycarbonate 1/4" thick.

Cabinet and any additional trimwork to be powder coated RAL 5021

LED display to be programmed as outlined in Hairpin (H.) Sign Schedule for signs H.11, H.13 and H.19

To be integrated into existing City of Burlington Public Works parking revenue control system by Skidata

Communication system to be cellular

Contractor to coordinate w/ Trans-Tech and Burlington Dept. of Public Works to implement LED components

System details to be provided to Design Team for review and approval

OPTION: Solar powered LED display [See Sheet 1.3 Sign Type H. "Hairpin" Directional - Solar Powered LED]

Burlington Wayfinding Improvements

2014

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Revisions

Date	Description	By
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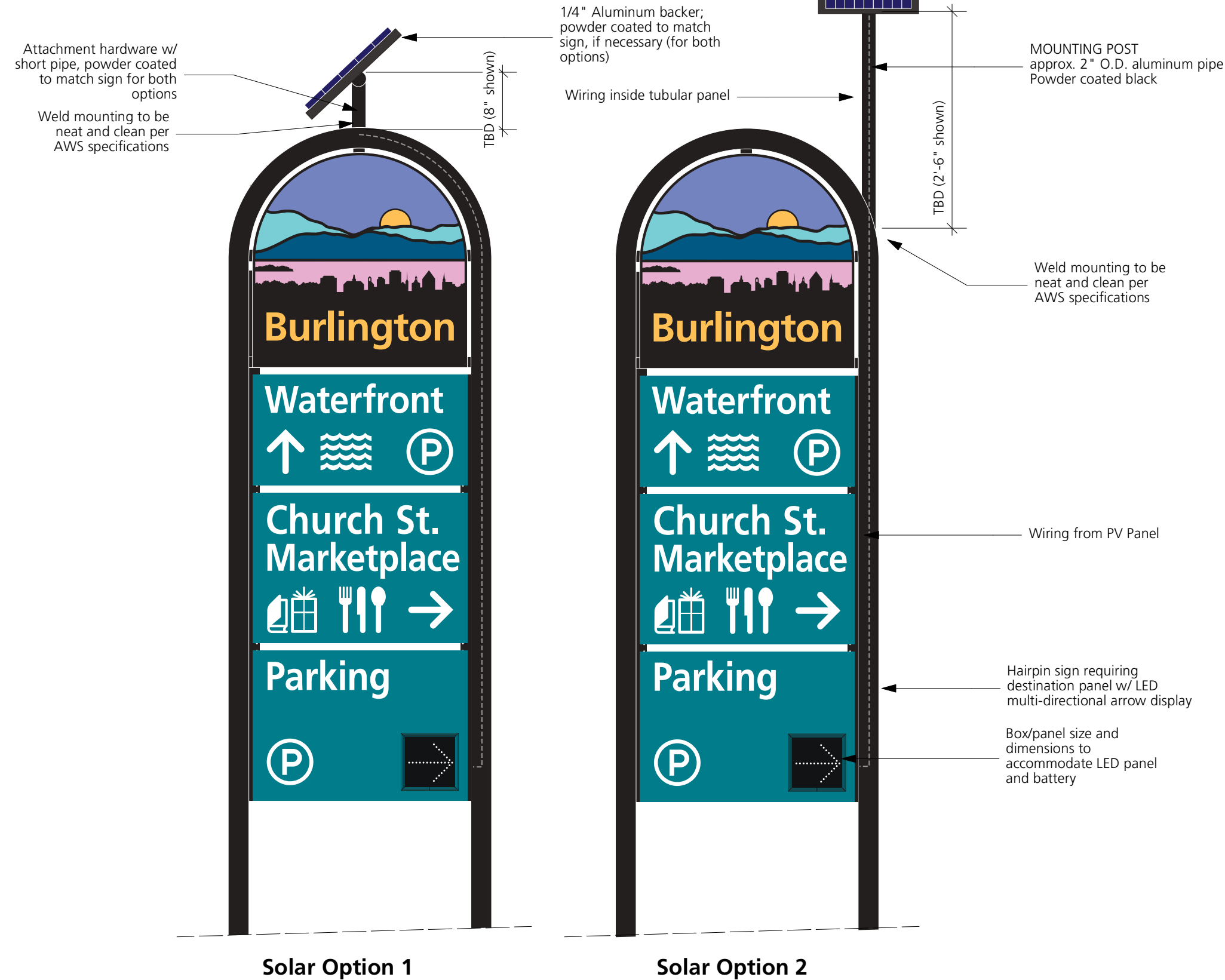
WAYFINDING SPECIFICATIONS SHEET 1.1

SIGN TYPE H.

"Hairpin" Directional -
typical

Scale: 3/4" = 1'
 Drawn by: MH
 Checked by: DR
 Date: 4/18/14
 Project: Burlington Wayfinding

OPTION: LED multi-directional arrow display to be powered by solar energy
Integrated photovoltaic system to be sized appropriately for use (panel size may vary)



Notes: All callouts apply to both solar panel options. LED panel and product as noted on Sheet 1.1 of this set.

Contractor to oversee installation of products, materials and wiring to ensure full operation and to be in compliance with any applicable city, state or national building and electrical codes. (i.e. NFPA 70 National Electric Code)

Notes for Solar Panel and Installation:

1. Solar Panel to be 12X18" or 16X20" maximum size and of sufficient voltage to power Trans-Tech (or equal) LED directional element.
2. Solar panel or mounting assembly shall be designed so as to be removable for repair or replacement of panel and associated elements.
3. Sufficient battery storage for nighttime and inclement weather LED sign lighting shall be provided and housed in LED sign "box". Note that any wiring shall be located within tubular post(s) and provision in the sign post shall be made for wiring, properly protected and insulated, to exit post and enter LED sign "box".
4. Contractor to provide final design and specifications for solar panel and installation for owner/designer review and approval.

Burlington Wayfinding Improvements

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Revisions

WAYFINDING SPECIFICATIONS SHEET 1.3

SIGN TYPE H.

"Hairpin" Directional - Solar Powered LED

Scale: 3/4" = 1'
Drawn by: MHH
Checked by: DR
Date: 4/08/15
Project: Burlington Wayfinding

Burlington Wayfinding Improvements

2014

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Revisions

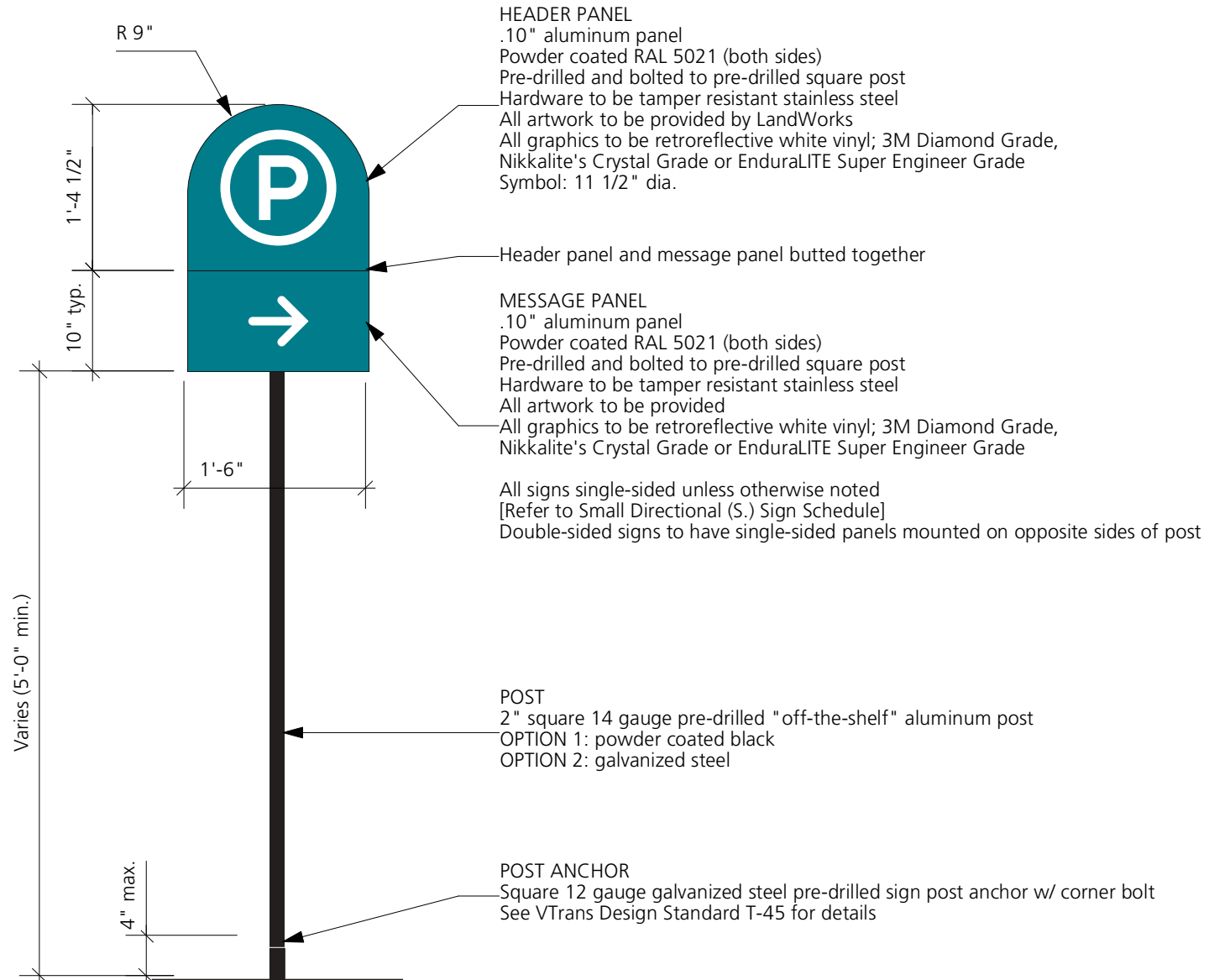
WAYFINDING SPECIFICATIONS SHEET 2

SIGN TYPE S. Small Directional

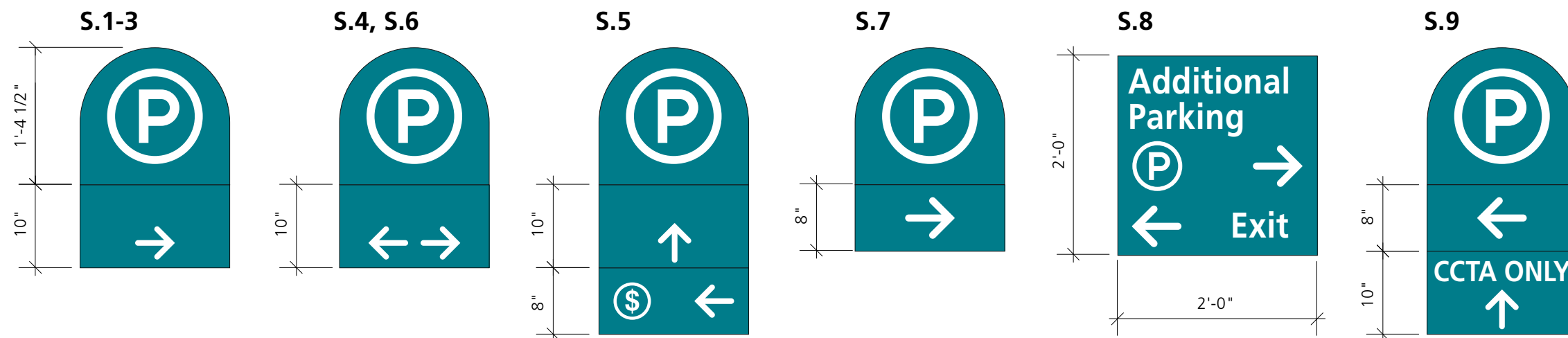
Scale: 3/4" = 1'
Drawn by: MH
Checked by: DR
Date: 4/18/14
Project: Burlington Wayfinding

NOTE: Total post height and clearance vary based on scheduled panels/messages
[Refer to Small Directional (S.) Sign Schedule and Panel Sizes below]

Clearance to be 7'-0" where pedestrian and/or turning movements occur below sign



Panel Sizes All artwork to be provided by LandWorks



All panels to be post mounted



CABINET EXTERIOR
Curved aluminum sheet; Approx 3/8" thick (1/4" min. - 1/2" max.)
Edges raised 3/4" beyond parking symbol graphics and sign cabinet faces; Raised edges to be rounded and powder coated black

INTERNALLY ILLUMINATED PARKING SYMBOL
Push-through graphic; Milk white acrylic 'ring' and 'P' to be raised 3/4" from symbol background and illuminated with white LED lights
All artwork to be provided by LandWorks
Symbol background to be aluminum; Powder coated RAL 5021
Illumination to be consistent across all surfaces and edges; No "hot spots" or dark areas
Entire symbol raised 2 1/2" from sign cabinet face and to be bordered with raised edge powder coated black aluminum to match cabinet exterior

ALL INTERNALLY ILLUMINATED LETTERS AND SYMBOLS
Lettering and "illuminated ring" around sign perimeter (as appropriate per individual sign) to be internally lit by continuous energy efficient flexible LED light strips designed for outdoor signage applications; light strips to be configured and applied in a manner so as to provide continuous and uniform lighting of the specific lettering or "ring" band around sign to be lit
Proposed LED lighting wattage range to be about 2.5 to 3 watts per linear foot of the light strip or of sufficient wattage to provide consistent and uniform lighting withough any spots of brighter or darker appearance
LED strips to be mounted internally with sign cabinet/box as appropriate and necessary to be proximate to acrylic lettering and "ring" material for safe and sufficient lighting in accordance with local and national electrical codes

INTERNALLY ILLUMINATED LETTERING
Milk white acrylic push-through lettering raised 3/4" from sign cabinet face and illuminated with white LED lights to match color of parking symbol
illumination to provide consistent and uniform lighting withough any spots of brighter or darker appearance across all surfaces and edges
Frutiger Bold; All artwork to be provided by LandWorks

SIGN CABINET FACE
Aluminum; Powder coated RAL 5021
Must be reinforced and/or thick enough gauge to prevent buckling/denting
To be removable to allow access to cabinet interior and future LED retrofit
Internal access may also be provided on side of cabinet exterior as needed
Any access hatches and/or surface mounted fasteners to be flush and finished to match

LED OPEN/FULL DISPLAY
Illumination: Row of 1 super bright, narrow viewing angle LEDs in bright white
Messages "blankout" when turned off, eliminating confusion, with long life, solid state lighting
Electrical: Integrated solid state power supply, photocell for auto photodimming standard voltage 120 VAC, UL/CUL approved for wet locations
Construction: Single faced sign, slim line continuous, corrosion resistant, aluminum housing 2.5" deep, face material to be impact resistant, smoke tinted Polycarbonate 1/4" thick
Finish: Powder coated RAL 5021 to match outer cabinet

ALL LED DISPLAYS
Cabinets and any additional trimwork to be powder coated RAL 5021
To be programmed as outlined in Parking-freestanding (Pf.) Sign Schedule
To be integrated into existing City of Burlington Public Works parking revenue control system by Skidata, Communication system to be cellular, Contractor to coordinate w/ Trans-Tech and Burlington Dept. of Public Works to implement LED components
System details to be provided to Design Team for review and approval

LED ARROW DISPLAY
Illumination: Row of 3 super bright, narrow viewing angle LEDs in bright white
Messages "blankout" when turned off, eliminating confusion, with long life, solid state lighting
Electrical: Integrated solid state power supply, photocell for auto photodimming standard voltage 120 VAC, UL/CUL approved for wet locations
Construction: Single faced sign, cabinet to be 10 gauge aluminum with welded seams, continuous hinged door with stainless steel door clamps, face material to be impact resistant, smoke tinted Polycarbonate 1/4" thick. Finish: Powder coated RAL 5021 to match outer cabinet

LED TEXT DISPLAY
Illumination: Row of 1 super bright, narrow viewing angle LEDs in bright white
Messages "blankout" when turned off, eliminating confusion, with long life, solid state lighting.
Scrolls instructions alternating in English and French
Electrical: Integrated solid state power supply, photocell for auto photodimming standard voltage 120 VAC, UL/CUL approved for wet locations
Construction: Single faced sign, slim line continuous, corrosion resistant, aluminum housing 2.5" deep, face material to be impact resistant, smoke tinted Polycarbonate 1/4" thick
Finish: Powder coated RAL 5021 to match outer cabinet

BIKE PARKING SYMBOL
Reflective white vinyl; 3M Diamond Grade or approved equal; Artwork to be provided by LandWorks

INSTALLATION
Anchor bolt/footing detail TBD by Contractor, Must allow entire sign cabinet to be removed for repair/replacement

Burlington Wayfinding Improvements

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802.295.4999

Revisions

NOTE:
1. LED display dimensions may vary slightly depending on availability at time of construction
2. Marketplace Garage to have "2HRS FREE" removed from signs

WAYFINDING SPECIFICATIONS SHEET 3

Sign Type Pf.
Parking ID Freestanding

Scale: 3/4" = 1'
Drawn by: MH
Checked by: DR
Date: 4/18/14
Project: Burlington Wayfinding

Pl.1 and Pl.2 Pl.1 and Pl.2 to be installed on Marketplace Garage exterior; Centered above Bank St. and Cherry St. entrances
[Refer to Parking Facility Sign Schedule: Parking ID - Lettering (Pl.) and Parking ID - Symbol (Ps.)]



Building mounted single-sided sign w/ internally illuminated push-through lettering
Attachment to building to be hidden within cabinet

CABINET EXTERIOR
Curved aluminum sheet; Approx 3/8" thick (1/4" min. - 1/2" max.)
Edges raised 3/4" beyond sign cabinet face; Raised edges to be rounded
Powder coated black
All artwork to be provided

Cabinet depth TBD by Contractor; Subject to review by Design Team; Preferred 6" max.

INTERNALLY ILLUMINATED LETTERING
Push-through lettering; Milk white acrylic to be raised 3/4" from cabinet face and illuminated with white LED lights
Illumination to be consistent across all surfaces and edges; No "hot spots" or dark areas
Frutiger Bold; All artwork to be provided by LandWorks

SIGN CABINET FACE
Aluminum; Powder coated RAL 5021
Must be reinforced and/or thick enough gauge to prevent buckling/denting
To be removable to allow access to cabinet interior and future LED retrofit
Internal access may also be provided on side of cabinet exterior as needed
Any access hatches and/or surface mounted fasteners to be flush and finished to match

CLEARANCE PANEL
1/8" aluminum; Powder coated RAL 5021
Black, reflective yellow and reflective white vinyl graphics
Frutiger Roman; All artwork to be provided by LandWorks
Vinyl to be ASTM type III sheeting minimum

Building mounted double-sided sign w/ internally illuminated push-through graphic

CABINET EXTERIOR
Curved aluminum sheet; Approx 3/8" thick (1/4" min. - 1/2" max.)
Edges raised 3/4" beyond parking graphic face; Raised edges to be rounded
Powder coated black
All artwork to be provided

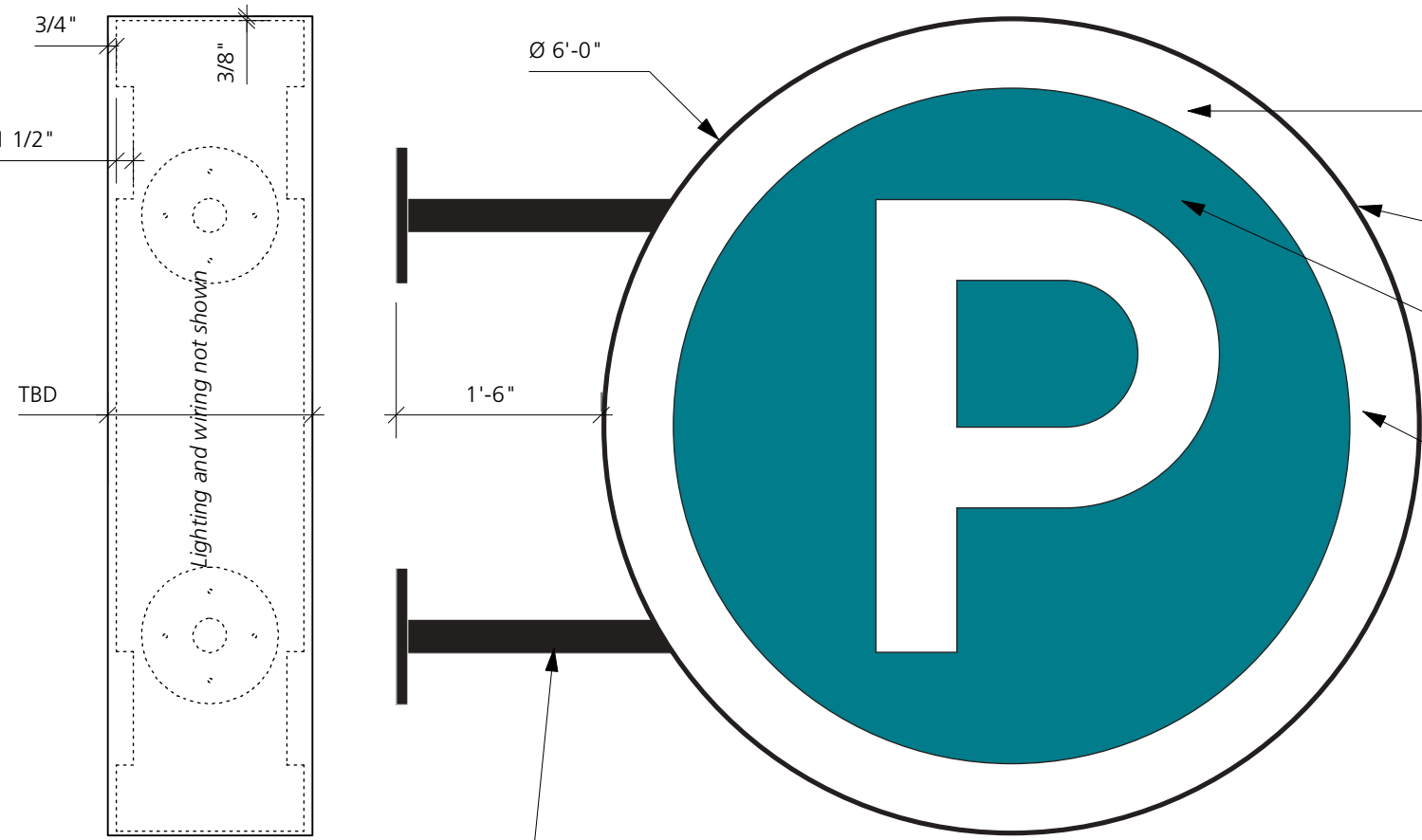
Cabinet depth TBD by Contractor; Subject to review by Design Team

SIGN CABINET FACE
Aluminum; Powder coated RAL 5021
Must be reinforced and/or thick enough gauge to prevent buckling/denting

INTERNALLY ILLUMINATED PARKING SYMBOL
Push-through graphic; Milk white acrylic 'ring' and 'P' to be raised 1 1/2" from symbol background and illuminated with white LED lights
Symbol background to be aluminum; Powder coated RAL 5021
Illumination to be consistent across all surfaces and edges; No "hot spots" or dark areas

ALL INTERNALLY ILLUMINATED LETTERS AND SYMBOLS
Lettering and "illuminated ring" around sign perimeter (as appropriate per individual sign) to be internally lit by continuous energy efficient flexible LED light strips designed for outdoor signage applications; light strips to be configured and applied in a manner so as to provide continuous and uniform lighting of the specific lettering or "ring" band around sign to be lit
Proposed LED lighting wattage range to be about 2.5 to 3 watts per linear foot of the light strip or of sufficient wattage to provide consistent and uniform lighting without any spots of brighter or darker appearance
LED strips to be mounted internally with sign cabinet/box as appropriate and necessary to be proximate to acrylic lettering and "ring" material for safe and sufficient lighting in accordance with local and national electrical codes

Ps.1 Ps.1 signs to be installed on Marketplace Garage exterior; Near top of east face of Bank St Tower
[Refer to Parking Facility Sign Schedule: Parking ID - Lettering (Pl.) and Parking ID - Symbol (Ps.)]



INSTALLATION
Mounting details TBD by Contractor
Shown as (2) 3" dia. tubes w/ welded flanges
Wiring to be hidden inside mounting system

Sign to be installed on east face of Bank St. stair tower of Marketplace Garage centered between top deck and top of stair tower and projecting from east face of tower

Burlington Wayfinding Improvements

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Revisions

Date	Description	By
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WAYFINDING SPECIFICATIONS SHEET 4

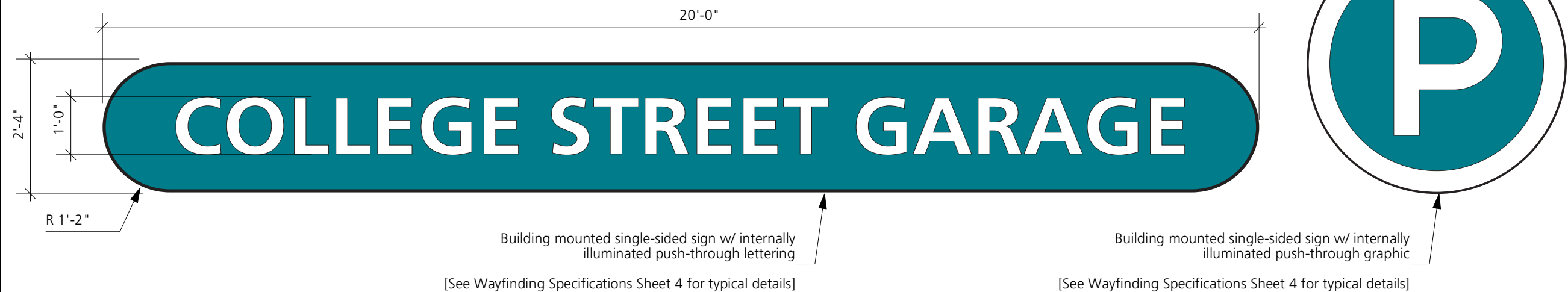
MARKETPLACE GARAGE

SIGNS Pl.1-2 & Ps.1
Parking ID-lettering and
Parking ID-symbol

Scale: 3/4" = 1'
Drawn by: MH
Checked by: DR
Date: 4/18/14
Project: Burlington Wayfinding

PI.3 & Ps.2

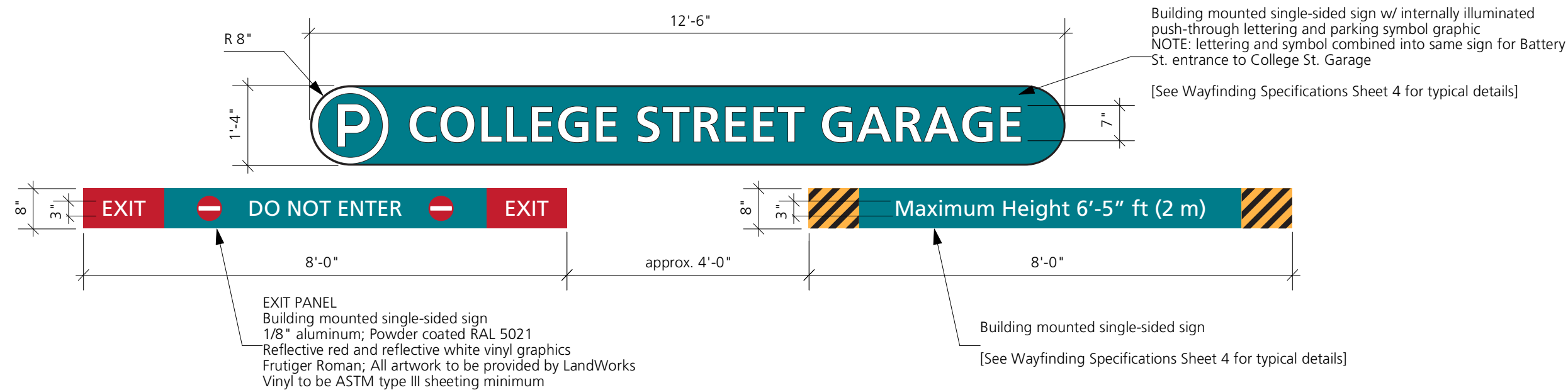
PI.3 and Ps.2 to be installed on College St Garage exterior; On south face of top deck wall; Visible from access drive/College St.
[Refer to Parking Facility Sign Schedule: Parking ID - Lettering (PI.) and Parking ID - Symbol (Ps.)]



PI.3 to be installed on concrete surface; Ps.2 to be installed on yellow brick surface

PI.4/Ps.3

PI.4/Ps.3 (combined) to be installed on College St Garage exterior; Centered above Battery St entrance
[Refer to Parking Facility Sign Schedule: Parking ID - Lettering (PI.) and Parking ID - Symbol (Ps.)]



Exit and entrance panels to be centered over corresponding lanes

Burlington Wayfinding Improvements

2014

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White River Jct., VT 05001
802.295.4999

Revisions

Date	Description	By
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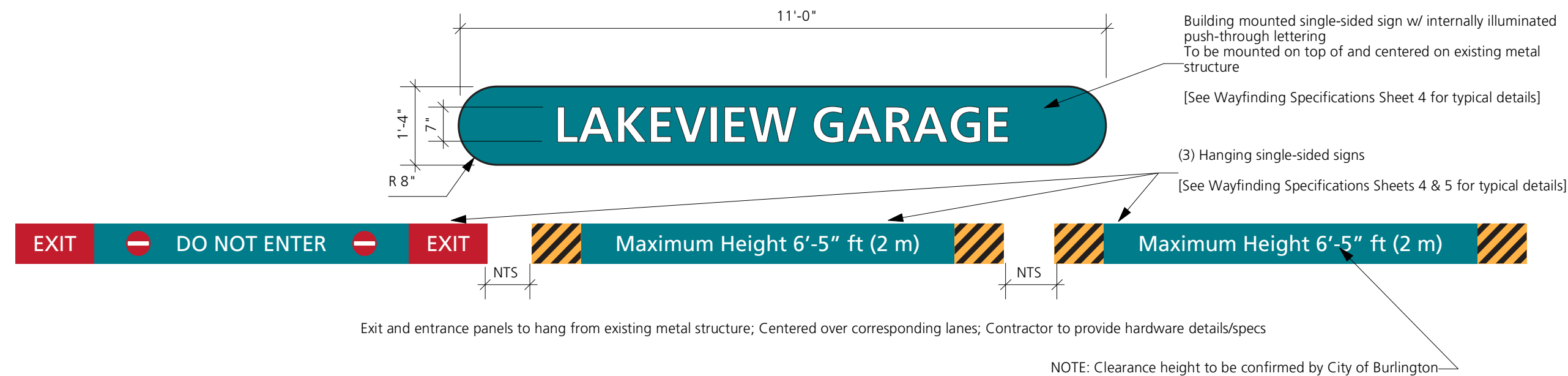
WAYFINDING SPECIFICATIONS SHEET 5

COLLEGE STREET GARAGE

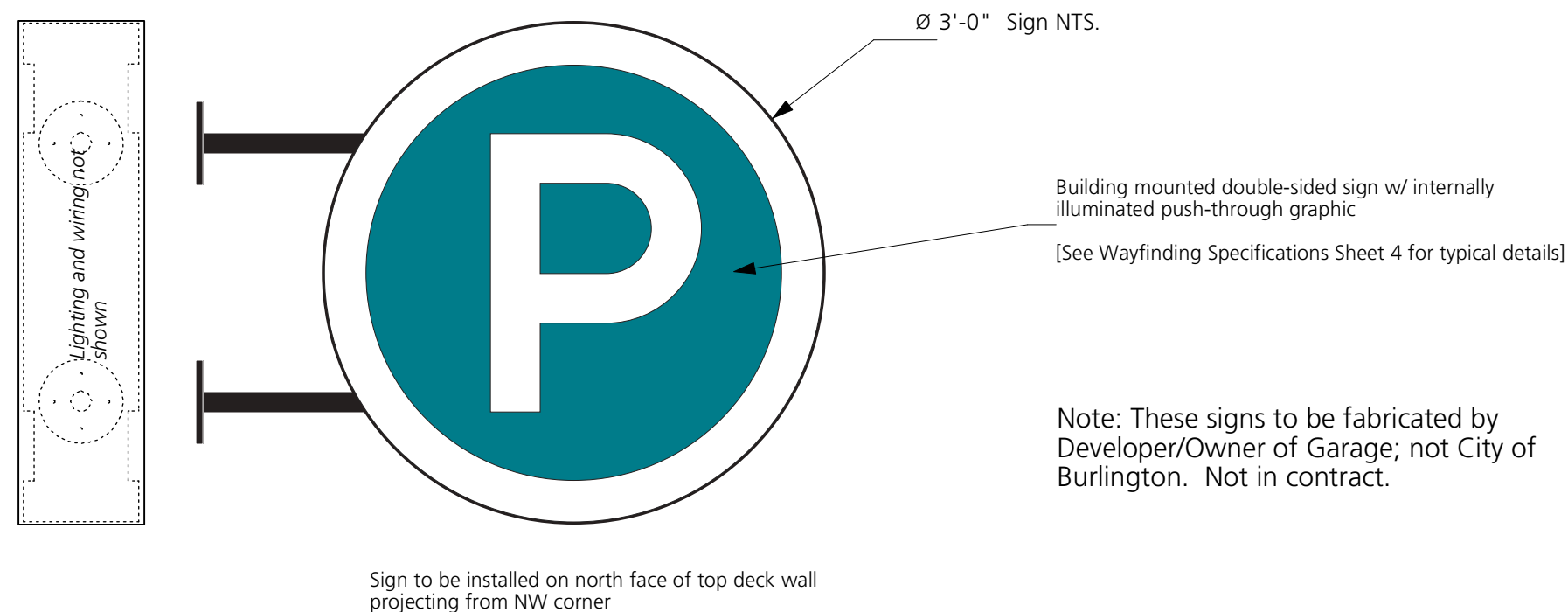
SIGNS PI.3-4
& Ps.2-3
Parking ID-lettering and
Parking ID-symbol

Scale: 3/4" = 1'
Drawn by: MH
Checked by: DR
Date: 4/18/14
Project: Burlington Wayfinding

Pl.5 Pl.5 to be installed at Lakeview Garage; On existing metal entry structure at Cherry St. entrance
[Refer to Parking Facility Sign Schedule: Parking ID - Lettering (Pl.) and Parking ID - Symbol (Ps.)]



Ps.4 Ps.4 to be installed Lakeview Garage exterior; On north face of top deck wall; Perpendicular to Cherry St.
[Refer to Parking Facility Sign Schedule: Parking ID - Lettering (Pl.) and Parking ID - Symbol (Ps.)]



Burlington Wayfinding Improvements

2014

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645 Pine St #A
Burlington, VT 05401
802.863.9094

VT Agency of Transportation
One National Life Drive
Montpelier, VT 05633

Federal Highway Administration
PO Box 568
Montpelier, VT 05601

Design Team

LandWorks
228 Maple St., Suite 32
Middlebury, VT 05753
802.388.3011

Resource Systems Group
55 Railroad Row
White River Jct., VT 05001
802.295.4999

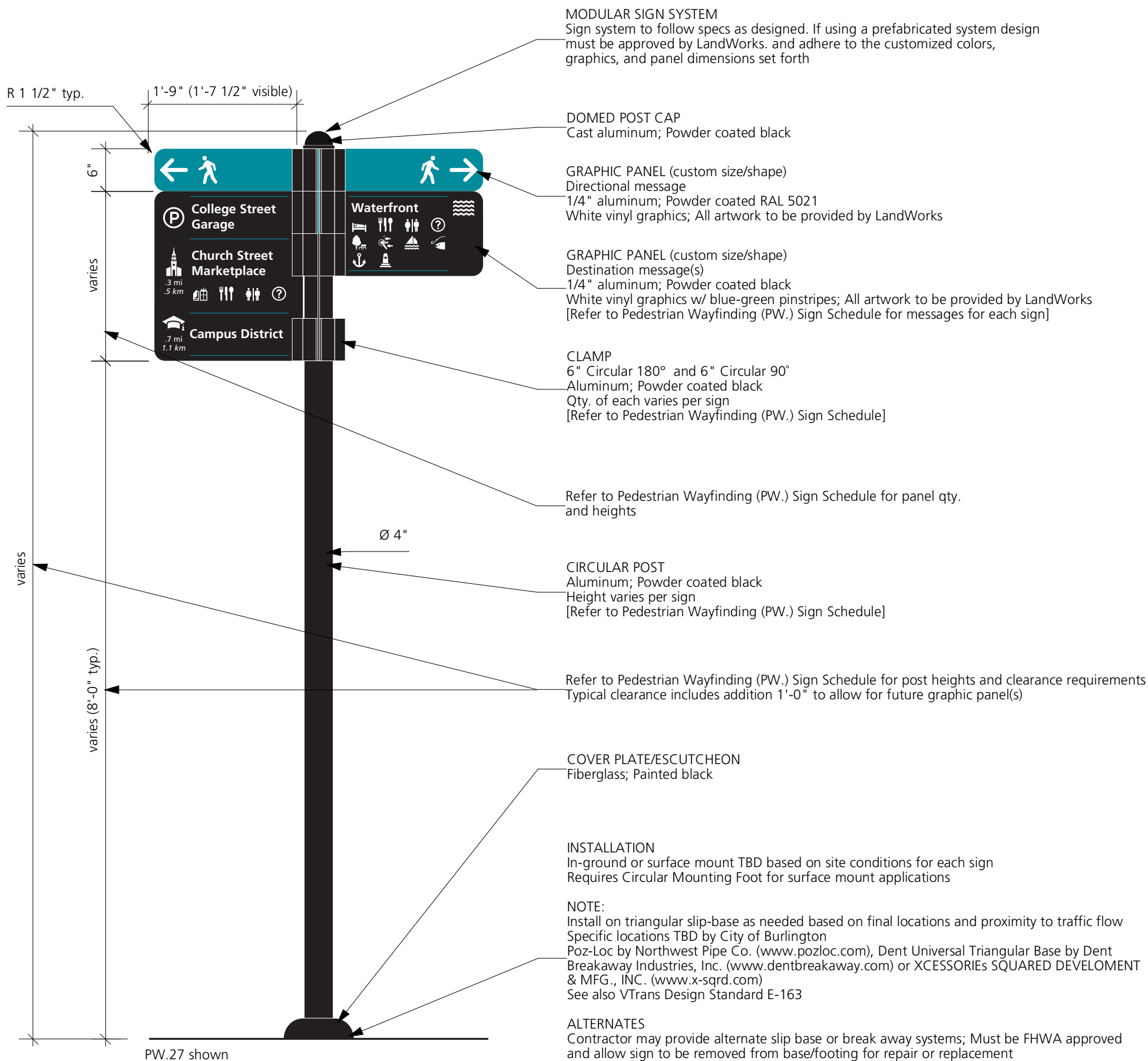
Revisions

WAYFINDING SPECIFICATIONS SHEET 6

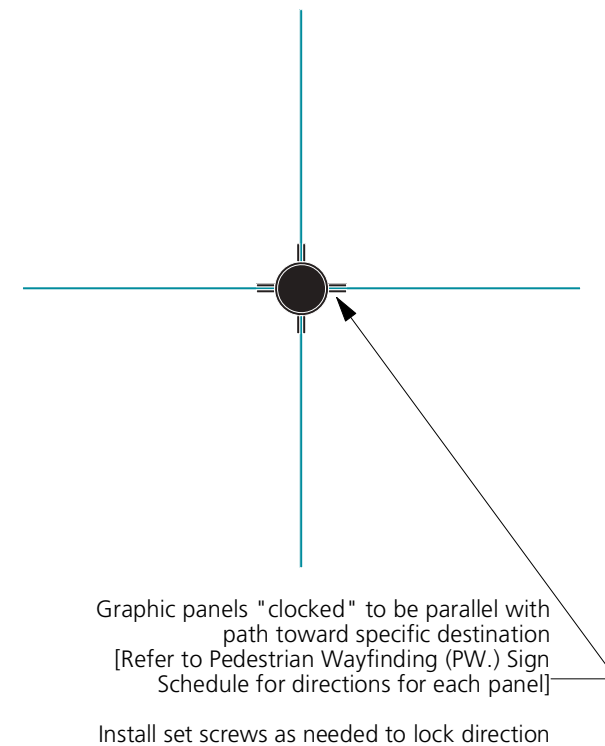
LAKEVIEW GARAGE

SIGNS Pl.5 & Ps.4
Parking ID-lettering and
Parking ID-symbol

Scale: 3/4" = 1'
Drawn by: MH
Checked by: DR
Date: 4/18/14
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Plan View (typ.)



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Revisions

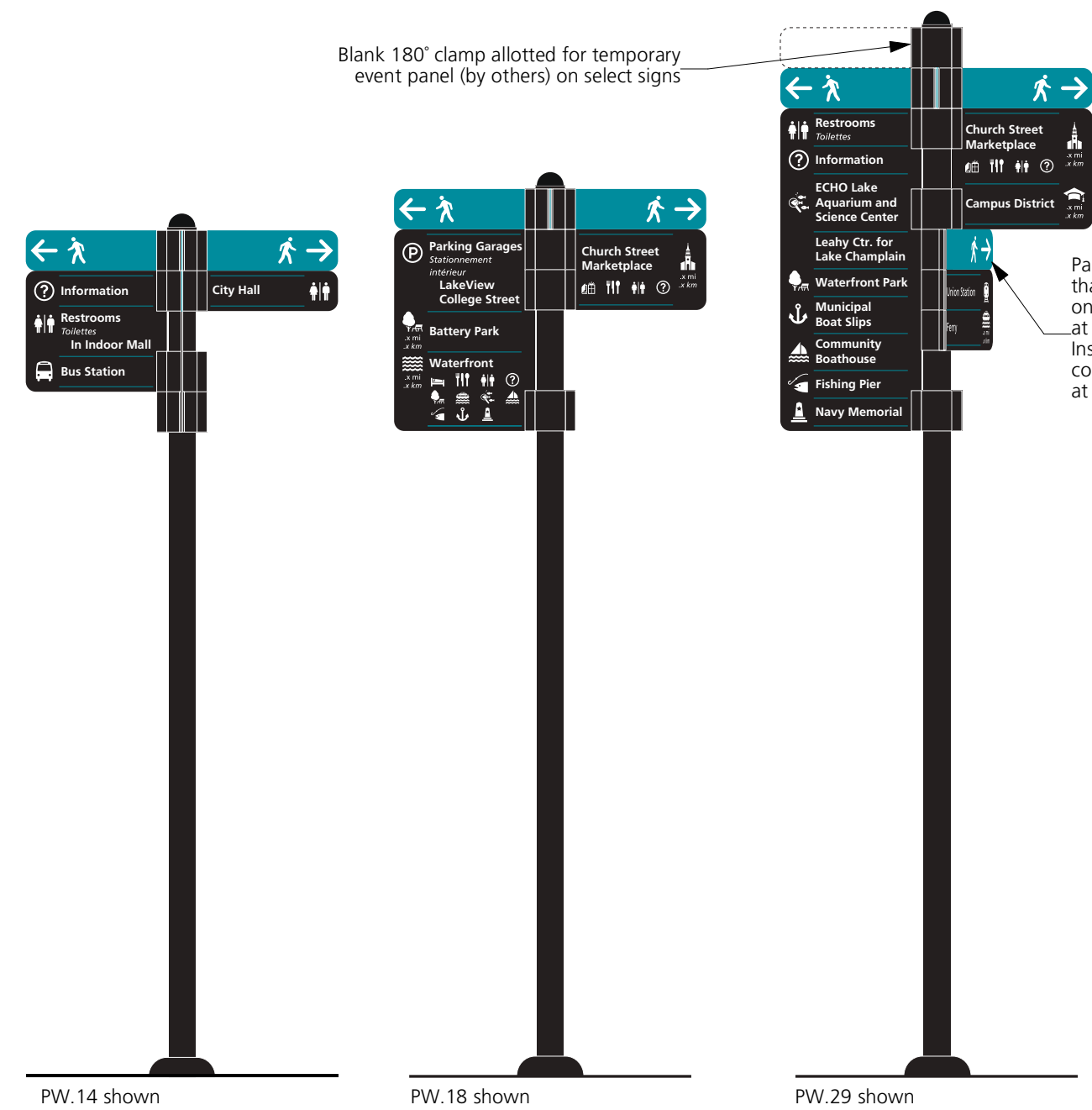
WAYFINDING SPECIFICATIONS SHEET 7.1

SIGN TYPE PW.

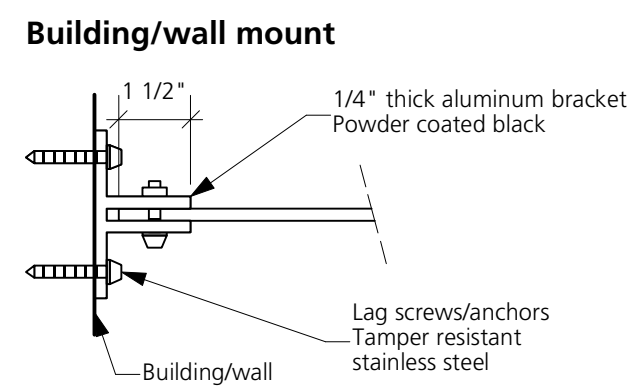
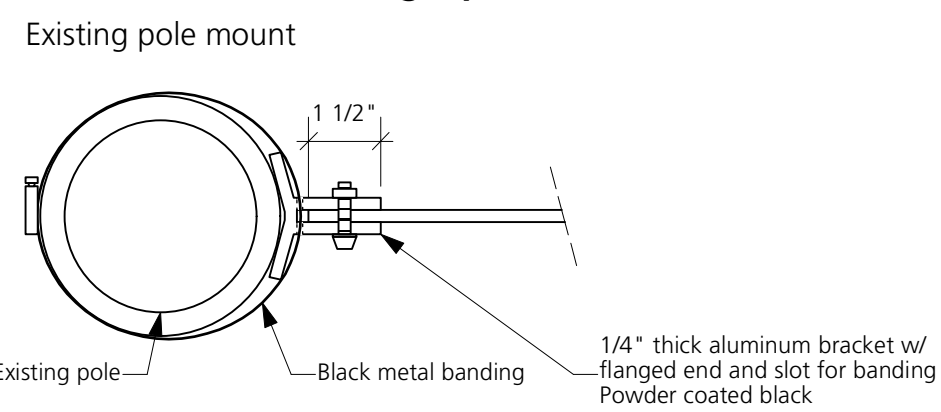
Pedestrian Wayfinding - typical

Scale: 3/4" = 1'
Drawn by: MH
Checked by: DR
Date: 4/18/14
Project: Burlington Wayfinding

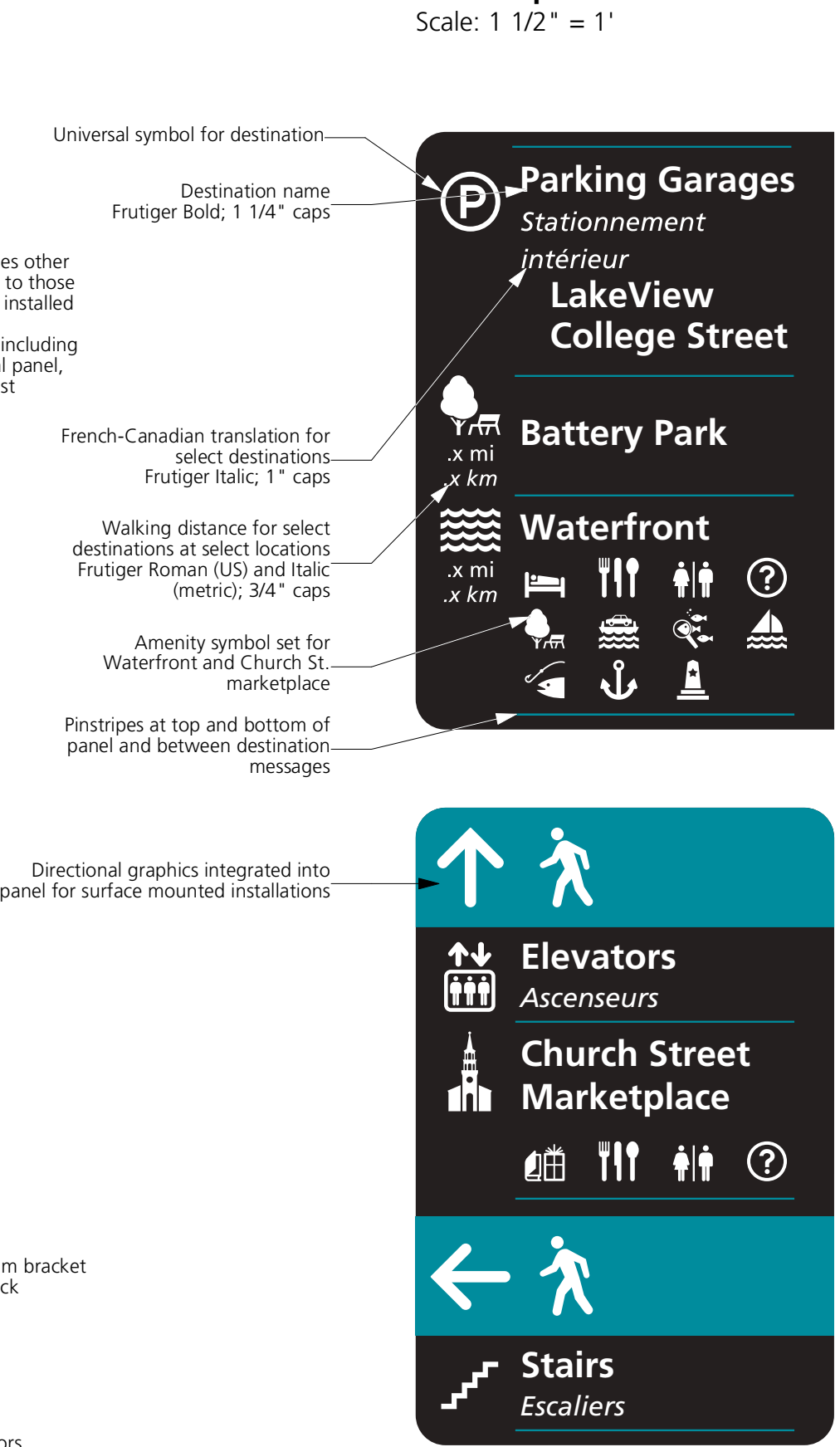
Additional PW. Examples Scale: 1/2" = 1'



Custom PW. Mounting Options Scale: 3" = 1'



PW. Graphic Panels Scale: 1 1/2" = 1'



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Revisions

WAYFINDING SPECIFICATIONS SHEET 7.2

SIGN TYPE PW. Pedestrian Wayfinding - Additional Examples and Mounting Options

Scale: 3/4" = 1'
Drawn by: MH
Checked by: DR
Date: 4/18/14
Project: Burlington Wayfinding



WALKING



WATERFRONT



FERRY



SHOPPING



DINING



CAMPUS DISTRICT



BIKE PARKING



AIRPORT



BUS



TRAIN STATION



BIKING



WALK BICYCLE



SKATE PARK



DOG PARK



CHURCH STREET



COMMUNITY BOATHOUSE



PARK



MUSEUM



MEMORIAL/MONUMENT



BOAT SLIP



LODGING



RESTROOMS



WATERFRONT
PROMENADE



LIBRARY



STAIRS



ELEVATOR



ECHO LAKE
AQUARIUM & SCIENCE
CENTER



FISHING PIER



PARKING



INFORMATION



PAY



NO AUTOS



NO SKATEBOARDING



NO ROLLERBLADING



NO LOITERING

**Burlington Wayfinding
Improvements**

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Revisions

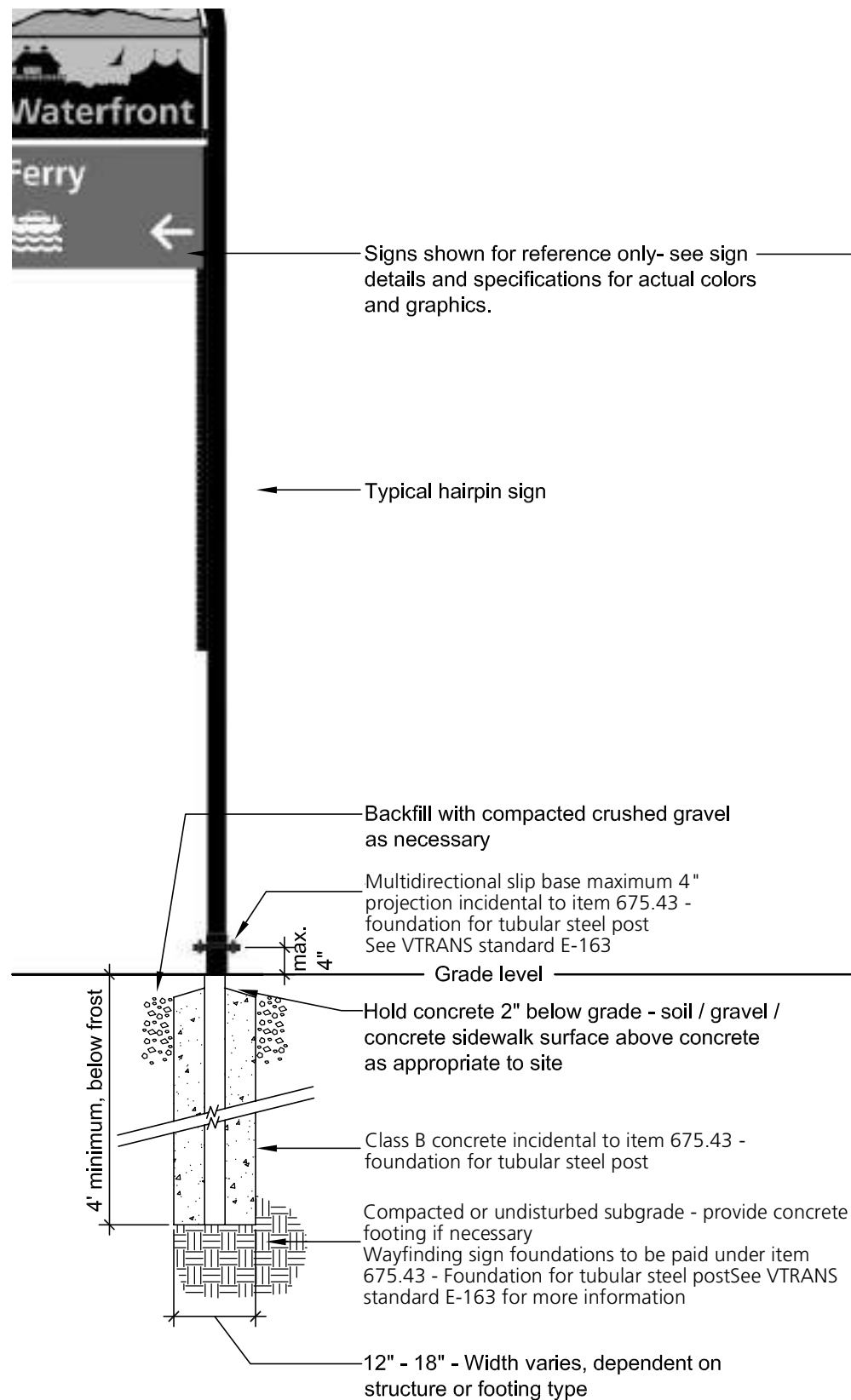
**WAYFINDING
SPECIFICATIONS
SHEET 8**

PICTOGRAMS

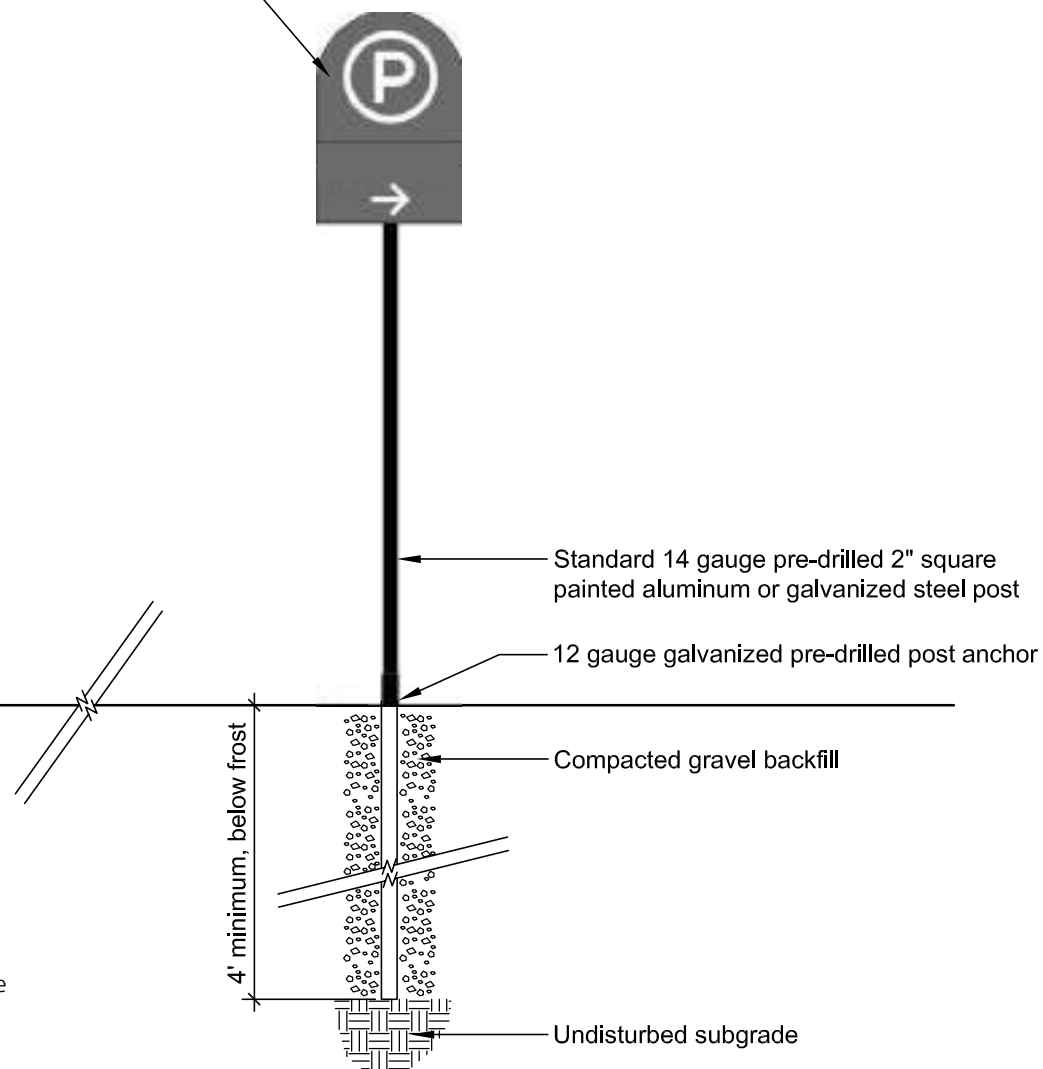
Graphic Symbols for
Wayfinding & Parking
Signs

Scale: 3/4" = 1'
Drawn by: MH
Checked by: DR
Date: 4/18/14
Project: Burlington Wayfinding

Note: Electronic versions of these symbols to be provided by LandWorks



'Hairpin' or Pedestrian Wayfinding Sign Installation w/
Breakaway Assembly
Scale: 1/2"=1'-0"



Type 'S' Sign Installation (direct burial)
Scale: 1/2"=1'-0"

- Notes:
1. See VTrans Standard E-163 and E-164 for further information on footing / foundation installation
 2. DIG SAFE must be contracted prior to installation- clearances from all underground utilities required.
 3. All locations confirmed in field with Owner or Owner's Representative prior to installation.
 4. All signs shall be installed so as to be level and plumb.
 5. Concrete foundations and footings shall be reinforced in accordance with industry practice and standards and/or with ASTM C94 standard or VTrans Concrete Class 'B'.

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Revisions

WAYFINDING SPECIFICATIONS SHEET 9.1

FOUNDATIONS & FOOTINGS

Sign Types H, PW & S

Scale: 3/4" = 1'
Drawn by: MH
Checked by: DR
Date: 4/18/14
Project: Burlington Wayfinding

Burlington Wayfinding Improvements

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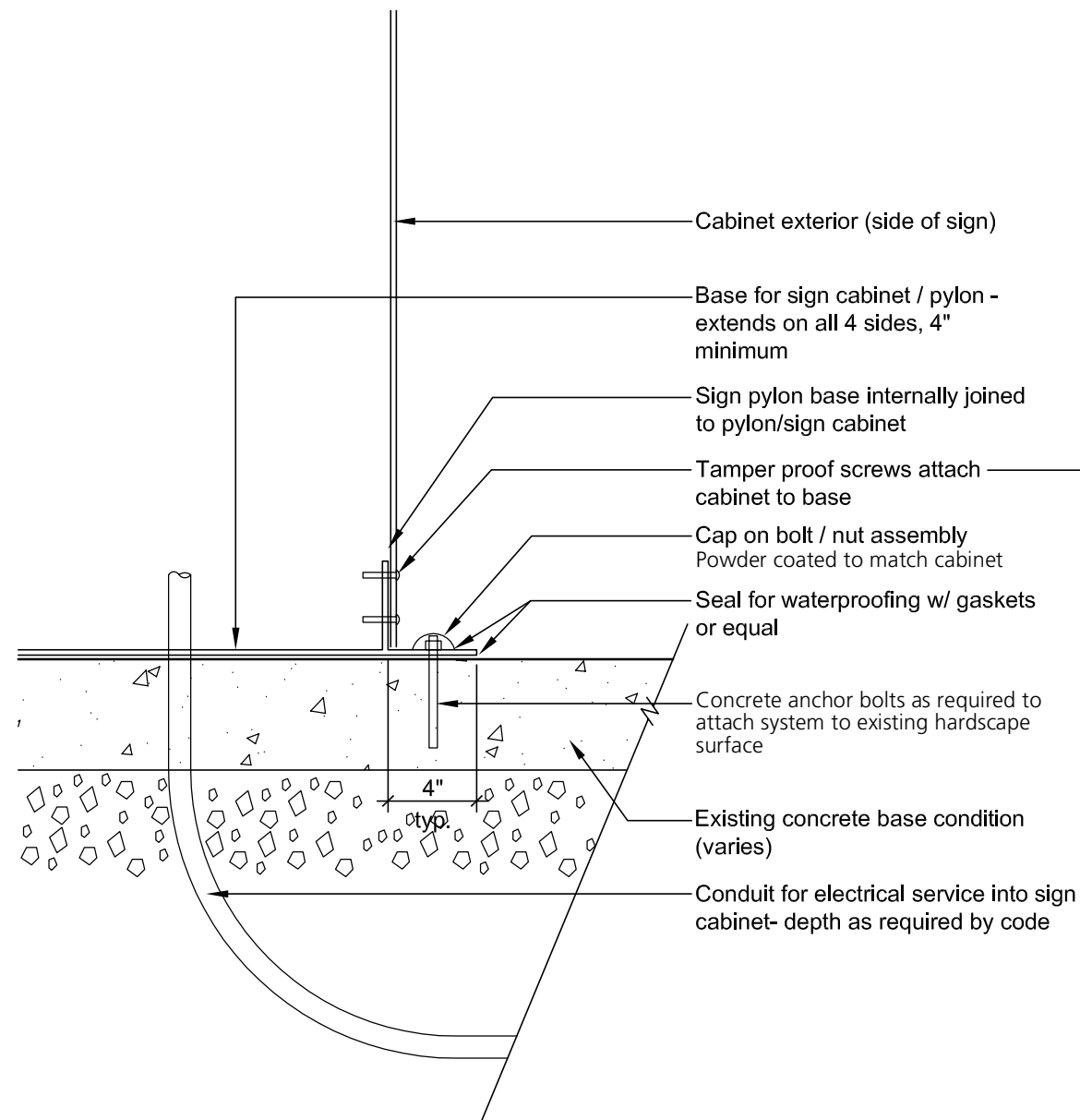
Revisions

WAYFINDING SPECIFICATIONS SHEET 9.2

FOUNDATIONS & FOOTINGS

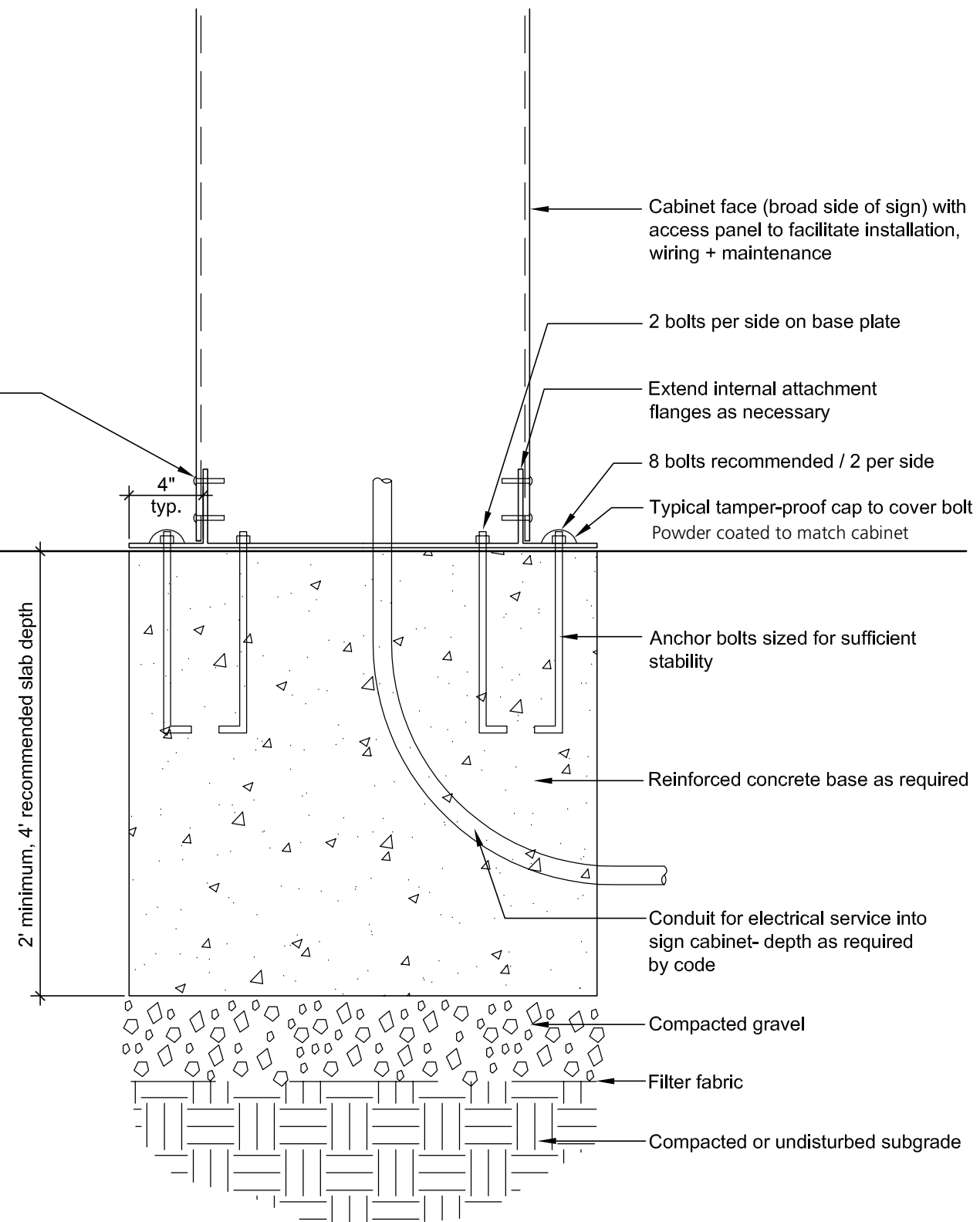
Sign Type Pf

Scale: 3/4" = 1'
Drawn by: MH
Checked by: DR
Date: 4/18/14
Project: Burlington Wayfinding



Notes:

1. Saw-cut existing concrete as necessary to run electrical conduit from the parking garage to the signs. Patch + repair concrete as needed.
2. See adjacent detail (Sign Type Pf on New Concrete Footing) for additional mounting information

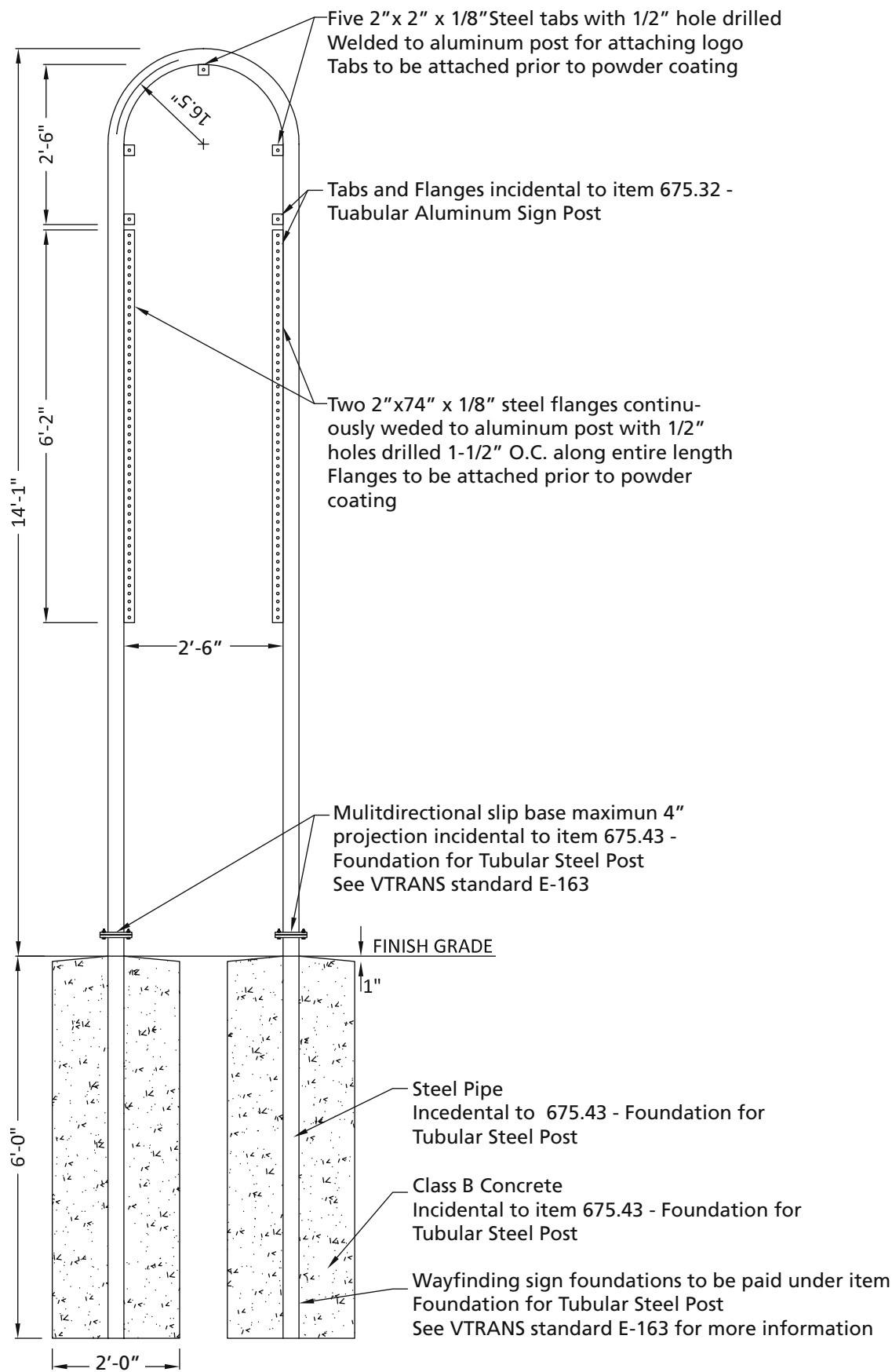


Parking Sign Type Pf - Section Through Foundation Detail
Front View (shown on existing concrete surface)

Scale 1 1/2" = 1'-0"

Parking Sign Type Pf - Section Through Foundation Detail
Side View (shown on new concrete footing)

Scale 1 1/2" = 1'-0"



HAIRPIN SIGNS DETAIL

NOT TO SCALE

HAIRPIN SIGNS NOTES

1. All graphics to be supplied and approved prior to installation.
2. All wayfinding signs, including materials, fonts, types, sizes, spacing and colors shall be in accordance with *Getting Around Burlington: A Plan for City Signing, Wayfinding and Information. Publication December 2008 Update.*
3. **Color Specifications:**
Sky: Pantone 272 CVC (RGB: 137, 119, 186)
Sun: Pantone 136 CVC (RGB: 252, 191, 73)
Mountains (blue): Pantone 319 CVC (RGB: 76, 206, 209)
Mountains (green): Pantone 340 CVC (RGB 0, 153, 119)
Lake: Pantone 244 CVC (RGB 237, 160, 211)
Skyline: Pantone Black (RGB: 0, 0, 0,)
Outlines: Pantone Black (RGB: 0, 0, 0,)
Type: Pantone 136 CVC (RGB 252, 191, 73)

Posts: Powder coated black

Destination Panels:

Background: Powder coated blue-green RAL 5021 (RGB: 26, 122, 99) both sides. Sides with lettering to be retroreflective equal
Text and symbols: Retroreflective white vinyl

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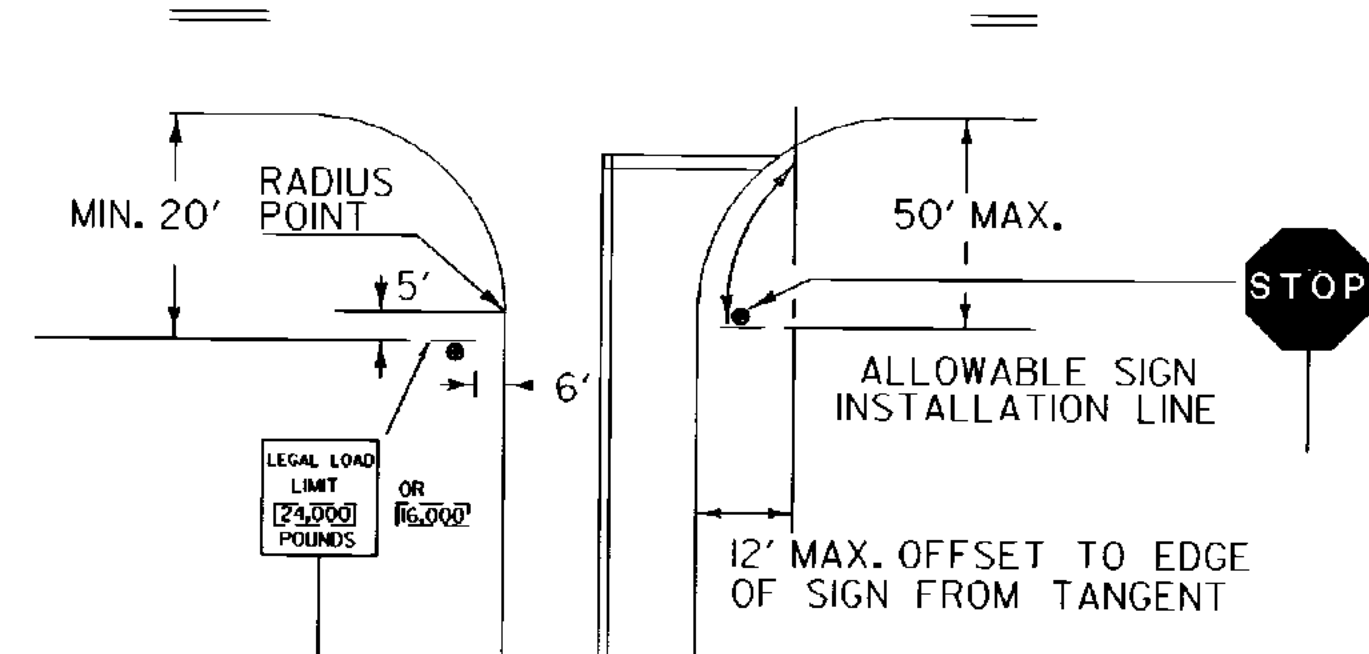
Revisions

WAYFINDING SPECIFICATIONS SHEET 9.3

FOUNDATIONS & FOOTINGS

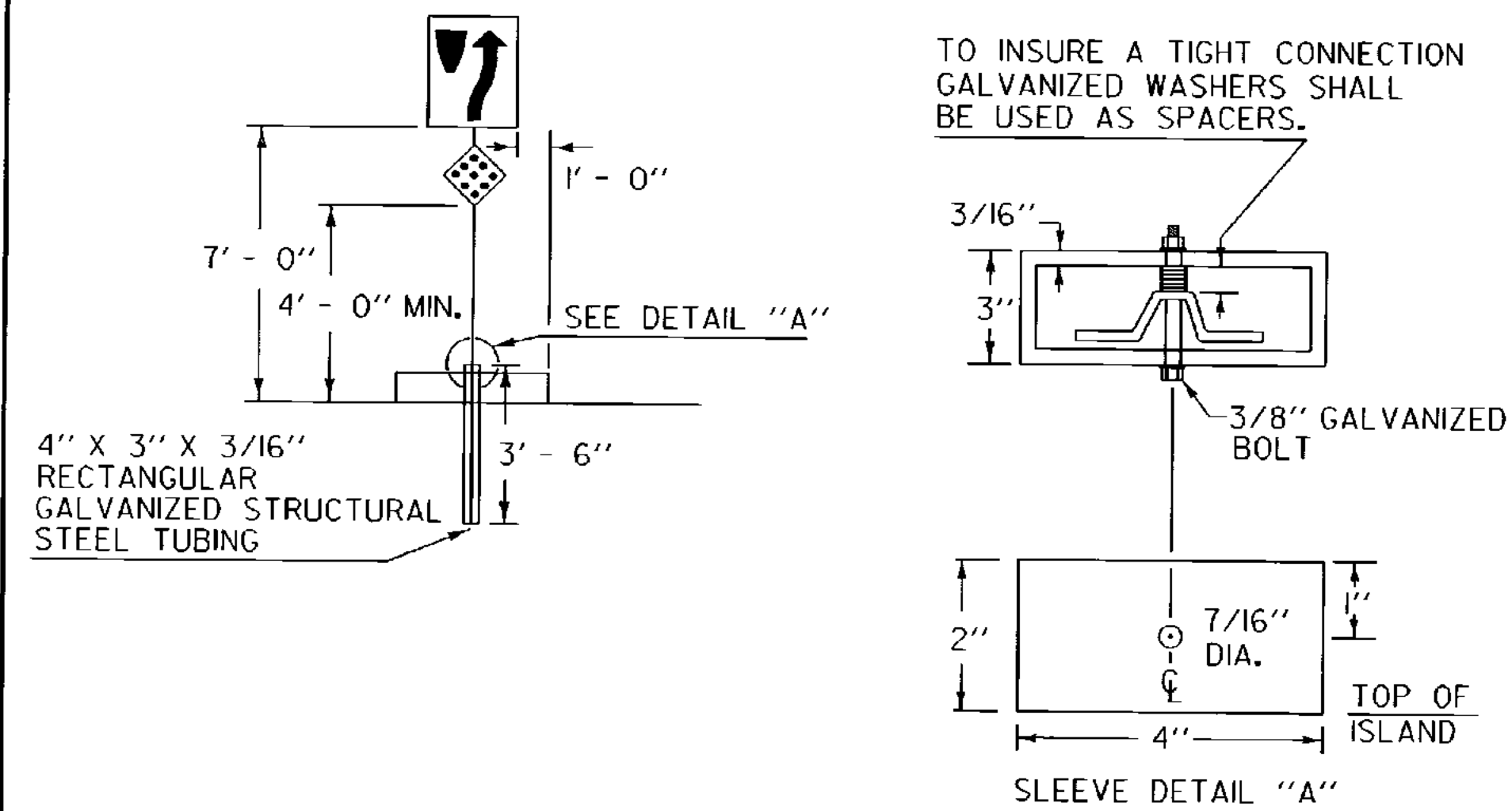
Sign Type Hairpin

Scale: 3/4" = 1'
Drawn by: MH
Checked by: DR
Date: 4/18/14
Project: Burlington Wayfinding



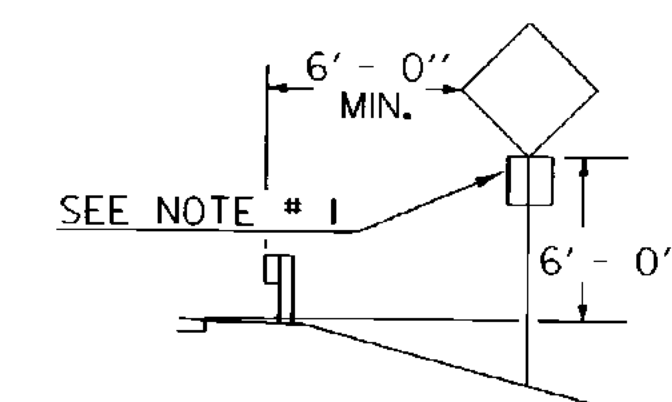
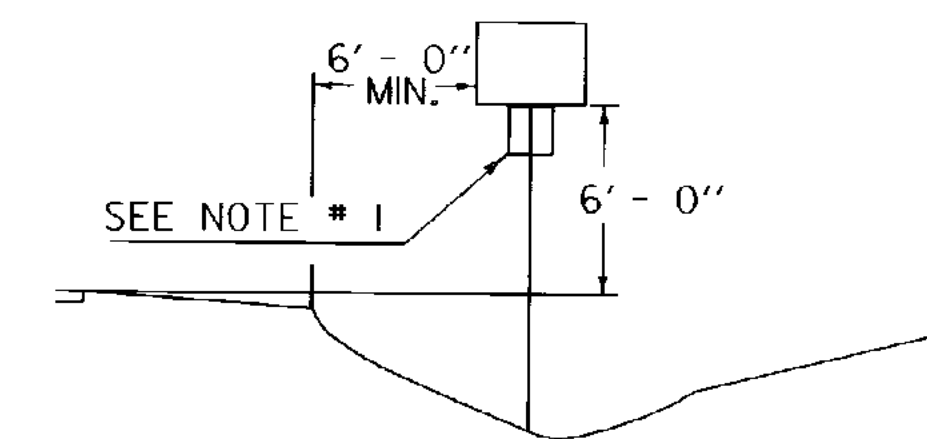
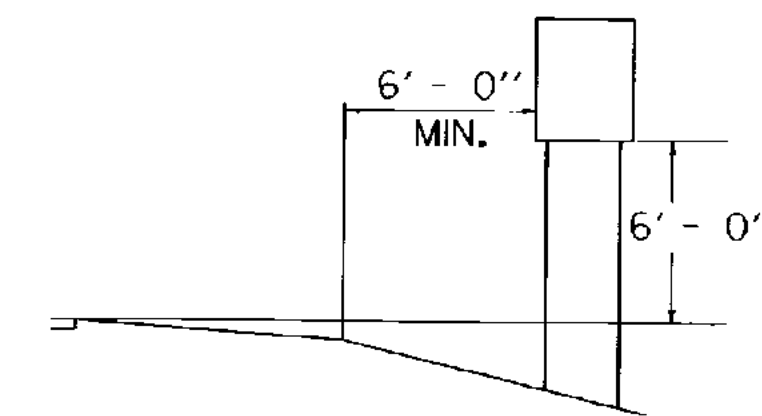
STOP SIGN SHALL BE PLACED ON DRIVERS RIGHT, MAINTAINING MAXIMUM VISIBILITY. CLEARANCE SHALL BE A MINIMUM OF 6' AND A MAXIMUM OF 50' FROM EDGE LINE OF INTERSECTING ROADWAY AND DOES NOT HAVE TO BE ADJACENT TO THE STOP BAR.

LEGAL LOAD LIMIT AND STOP SIGNS AT INTERSECTIONS WITH TOWN HIGHWAYS

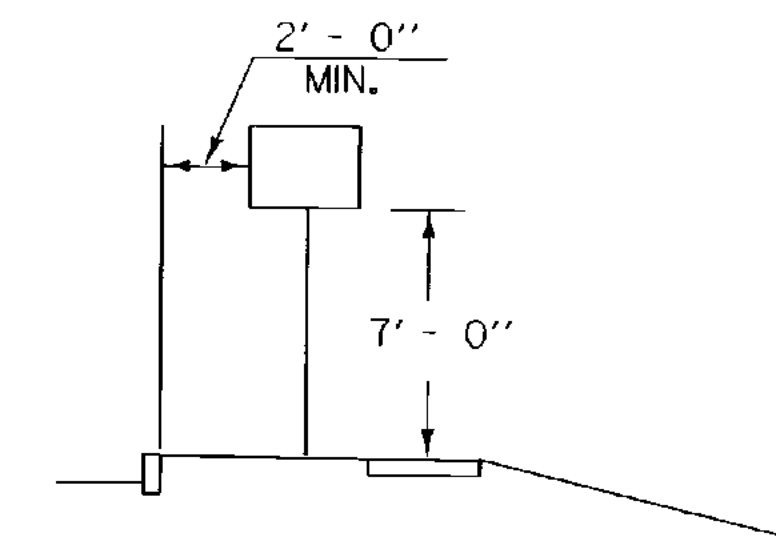
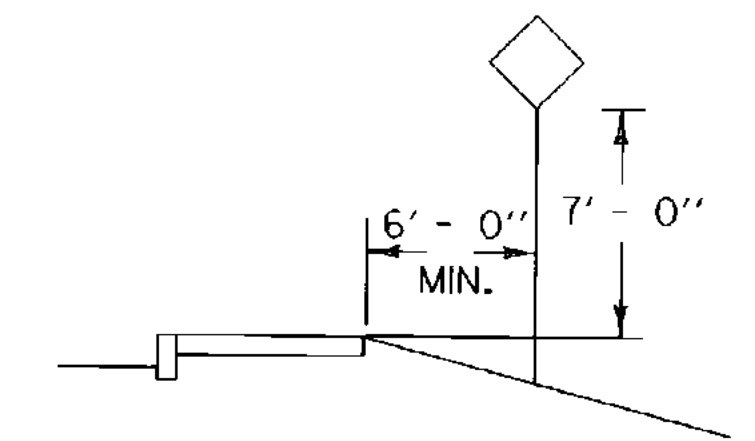


SIGNS ON MEDIAN ISLANDS IN THE LINE OF TRAFFIC

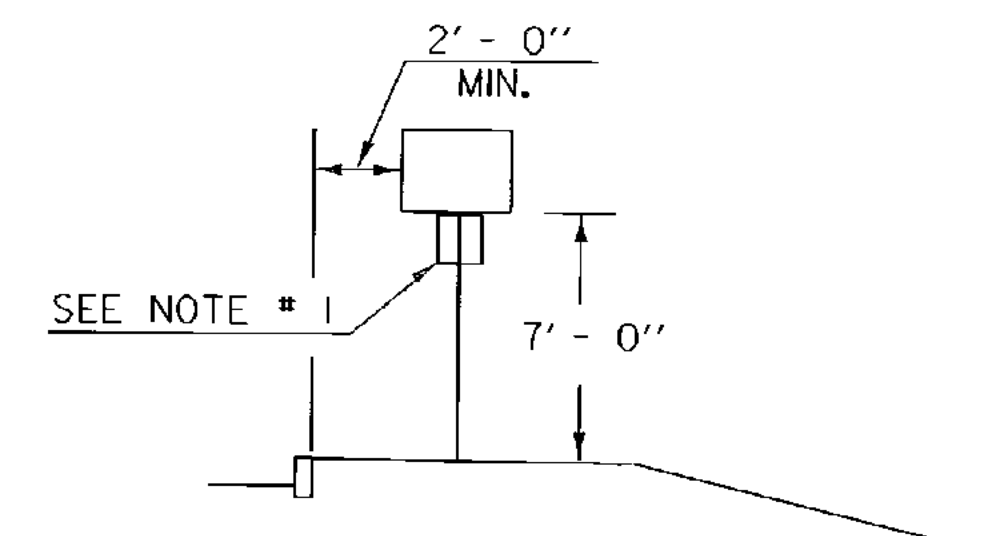
INCREASE VERTICAL CLEARANCE TO 7' IN AREAS OF FREQUENT ROADSIDE PARKING OR PEDESTRIAN ACTIVITY



RURAL



IF SUFFICIENT CLEARANCE IS NOT AVAILABLE BETWEEN CURB AND SIDEWALK MOUNT SIGN BEHIND SIDEWALK AS SHOWN AT TOP. CHECK FOR ADEQUATE R.O.W..



URBAN

NOTES:

1. IN BOTH RURAL AND URBAN LOCATIONS, IF A SECONDARY SIGN IS MOUNTED BELOW ANOTHER SIGN, THE MINIMUM CLEARANCE MAY BE REDUCED BY ONE FOOT.
2. IN RURAL AREAS WITH NO OR MINIMAL SHOULDER, THE LATERAL CLEARANCE TO THE EDGE OF A SIGN SHOULD BE A MINIMUM OF 12' FROM THE EDGE OF THE TRAVELED WAY.
3. ALSO SEE OTHER STANDARD SHEETS FOR MOUNTING CLEARANCE AND SPACING OF DESTINATION AND ROUTE MARKER ASSEMBLIES AND TOWN LINE SIGNS.

POST REFERENCE:

REFER TO THE DETAILS ON THE APPROPRIATE STANDARD DRAWING FOR INFORMATION CONCERNING THE PROPER MOUNTING OF SIGNS ON APPROPRIATE POSTS.

OTHER STDS. E-160 E-161 E-162 E-163 E-164
REQUIRED:

REVISIONS AND CORRECTIONS

JAN. 23, 1995 - DATE OF ORIGINAL ISSUE
AUG. 08, 1995 - VARIOUS MINOR NOTE REVISIONS

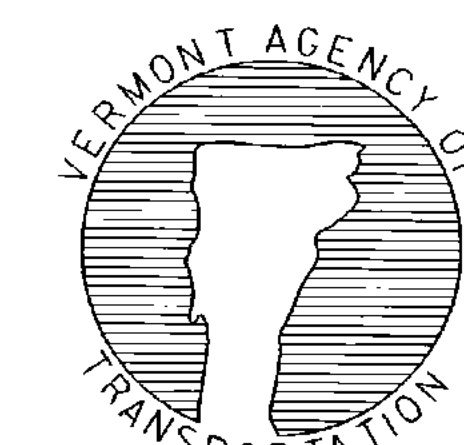
APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.

APPROVED

Stephen D. MacArthur
DIRECTOR OF ENGINEERING

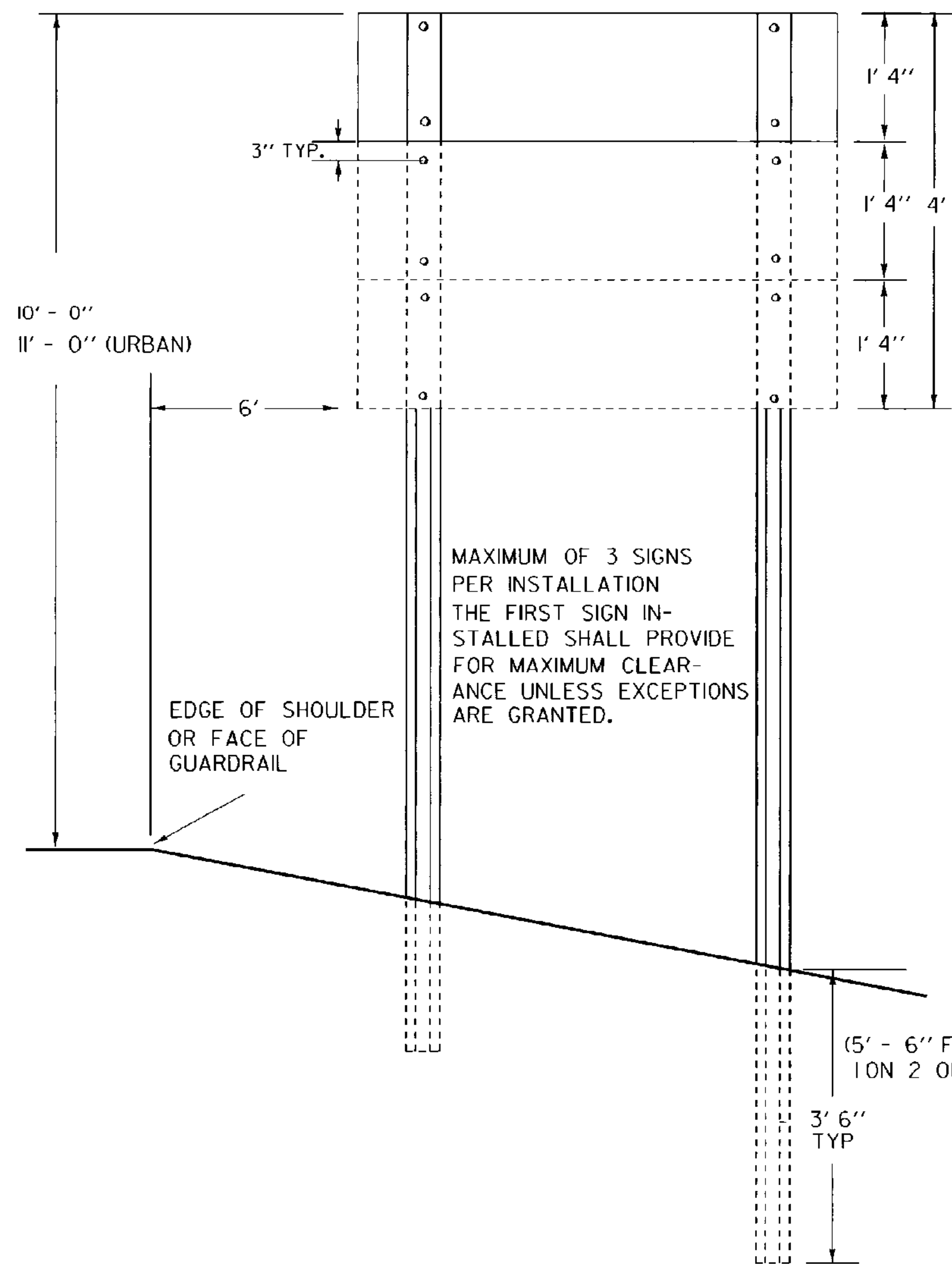
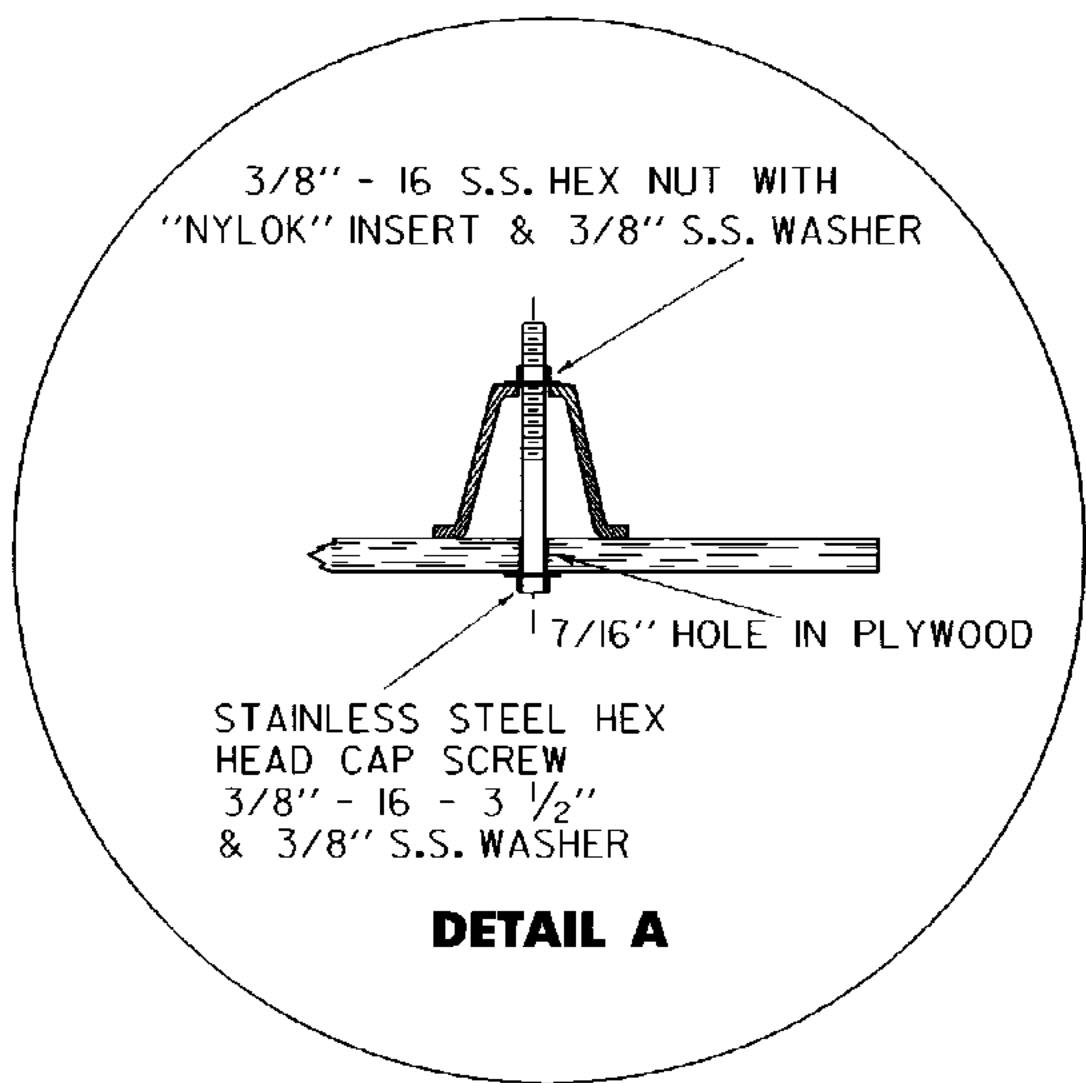
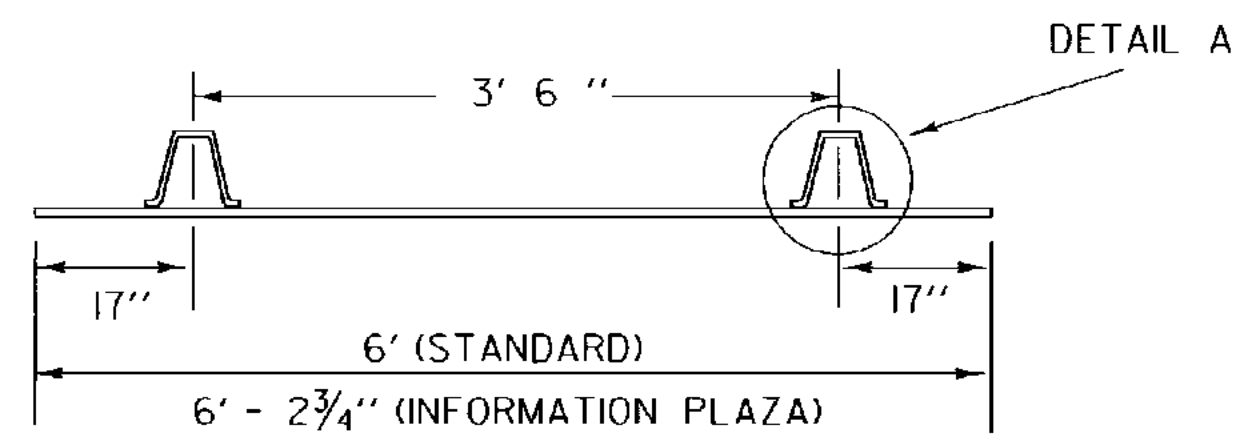
David A. Ross
TRAFFIC AND SAFETY ENGINEER

STANDARD SIGN PLACEMENT CONVENTIONAL ROAD

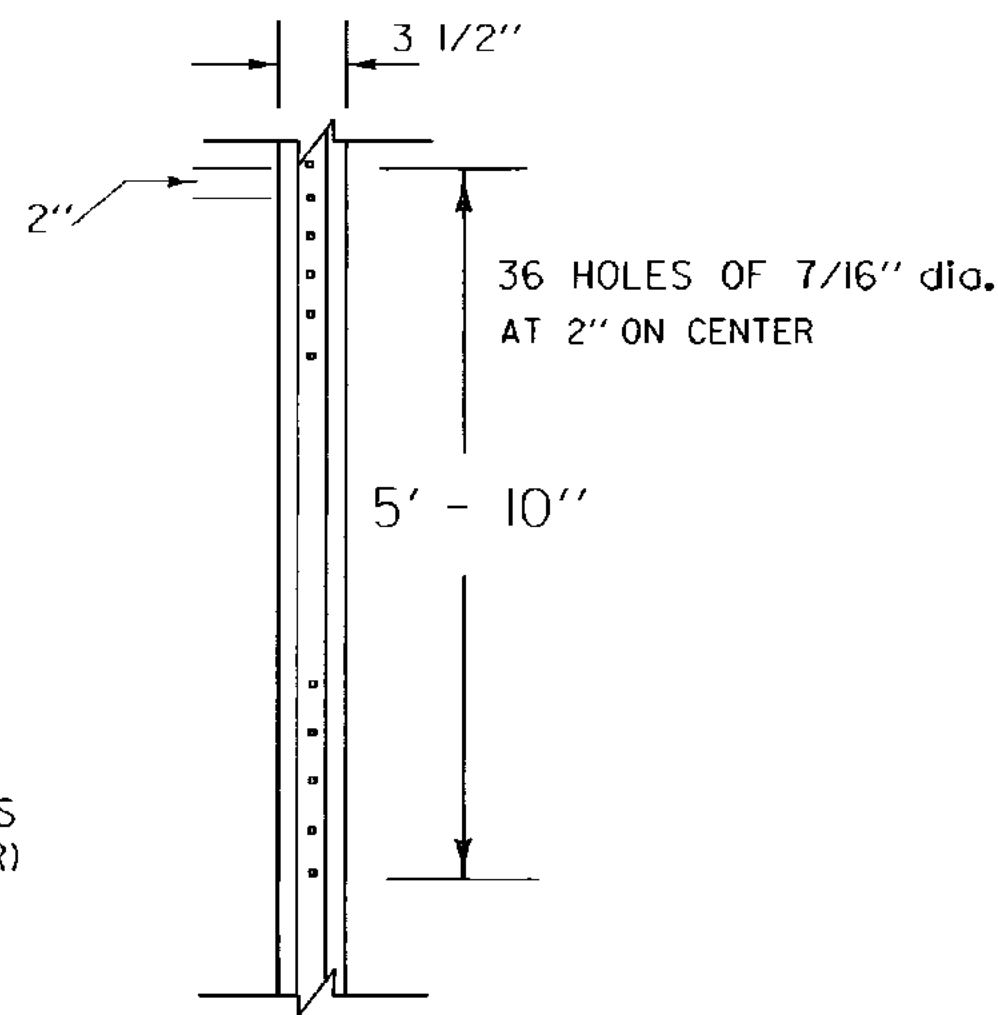


STANDARD E-121

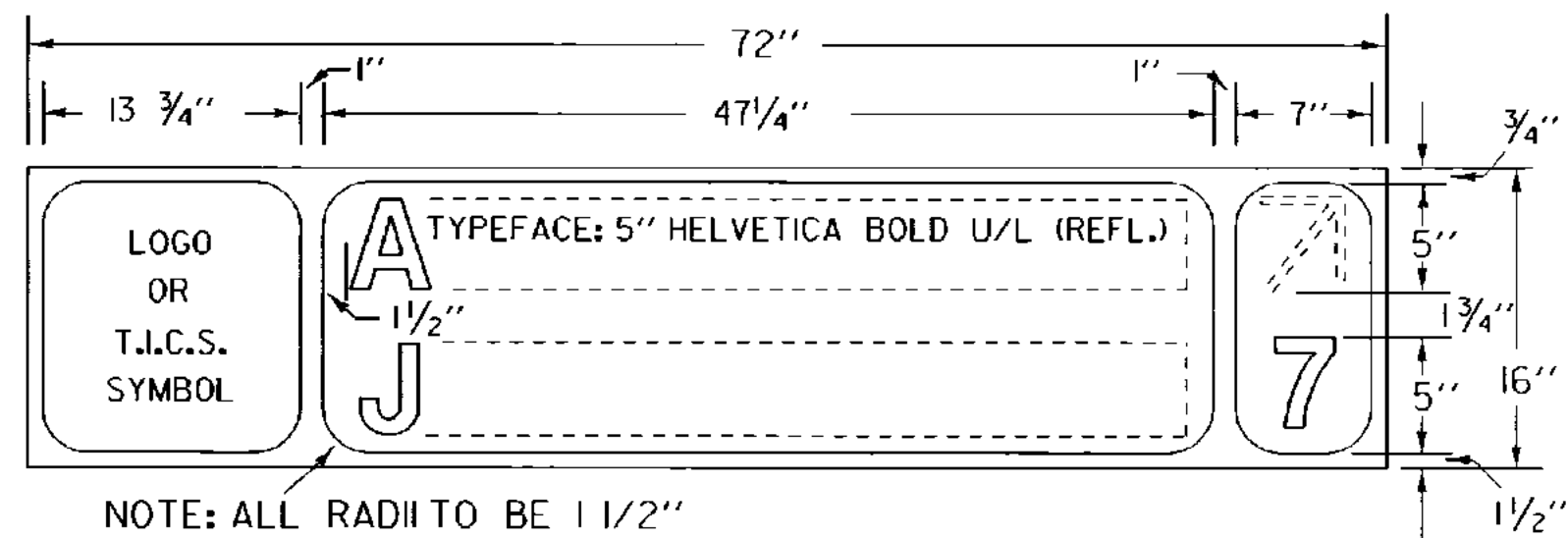
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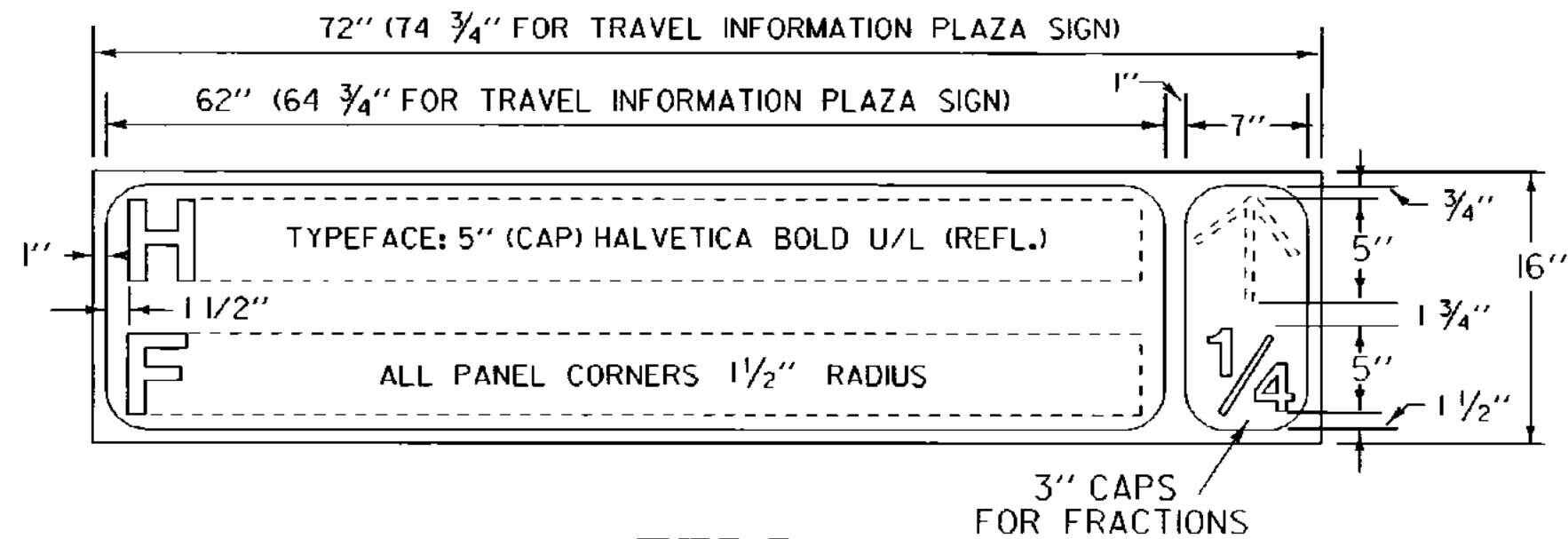
3#1F FLANGED CHANNEL STEEL SIGN POST DETAIL



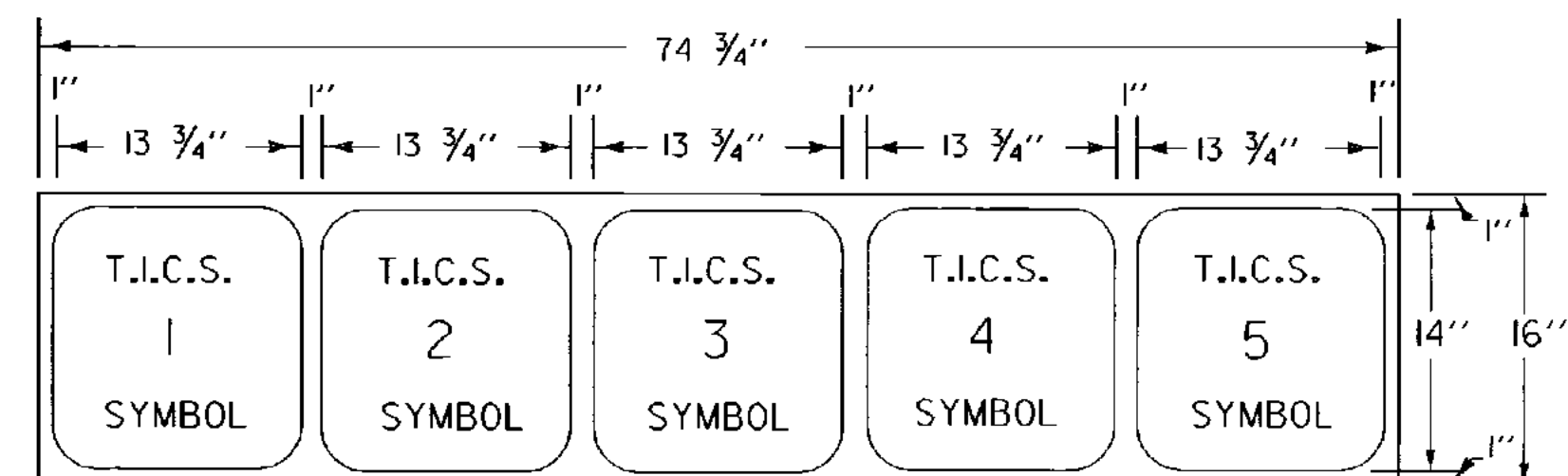
POST DRILLING DETAIL



TYPE A

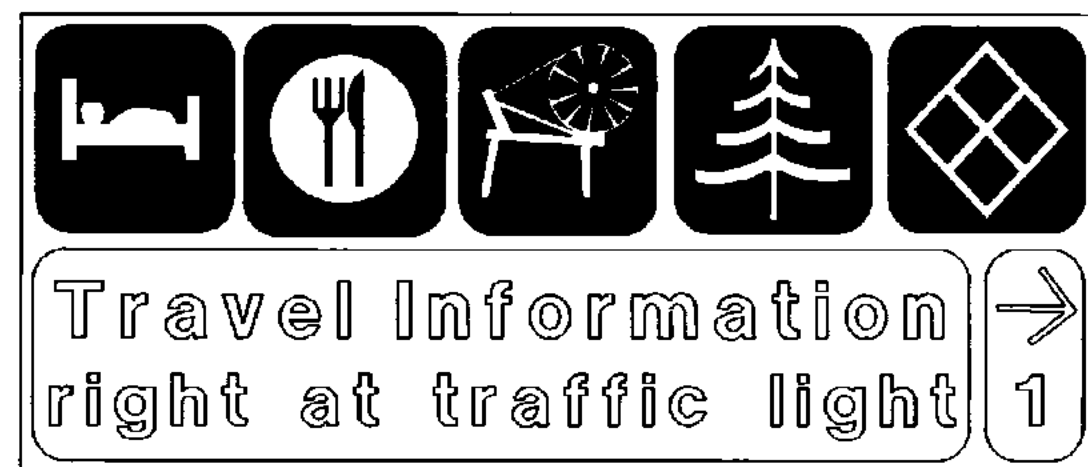


TYPE B



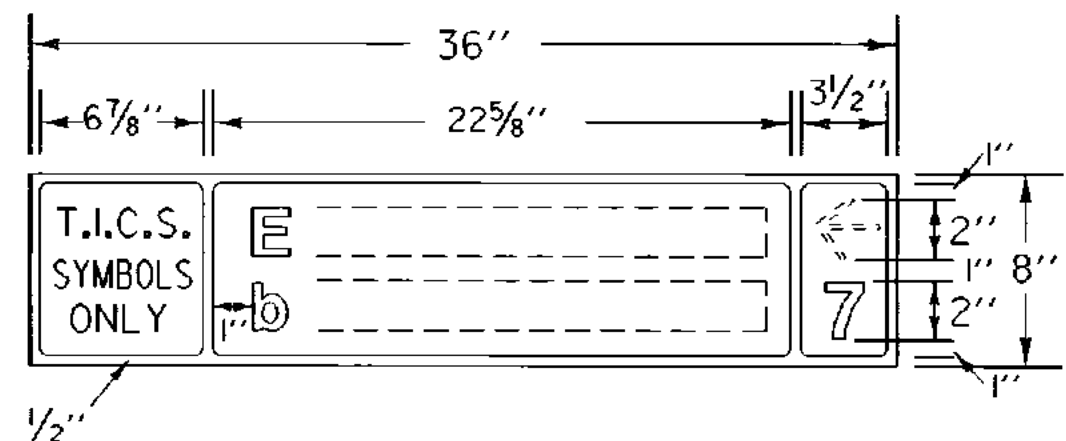
TYPE C

ONLY USED ON APPROACHES TO INFORMATION PLAZAS

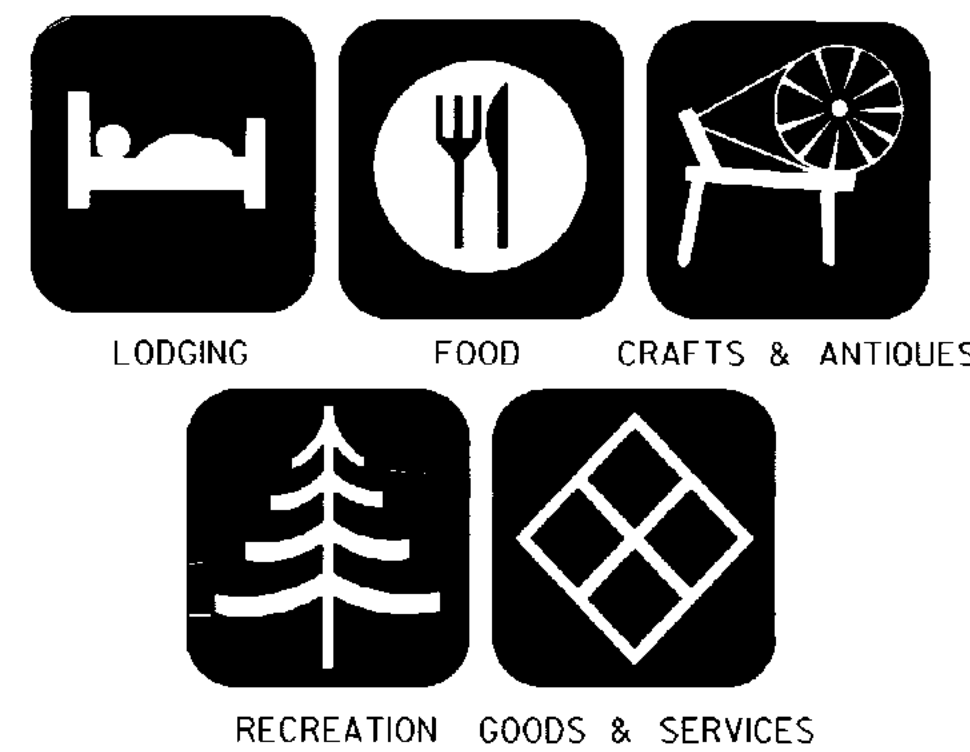


EXAMPLE OF PLAZA INFORMATION SIGN

FOR MORE DETAILS ON THE STATE'S INFORMATION SYSTEM, WRITE OR CALL: TRAVEL INFORMATION COUNCIL, C/O AGENCY OF TRANSPORTATION, MAINTENANCE DIVISION, NATIONAL LIFE BUILDING, MONTPELIER, VERMONT 05602 (802) 828-2651.



DIRECTIONAL SIGN DETAIL FOR USE ON HIGHWAYS WITH SPEEDS OF 30 M.P.H. OR LESS



THE SYMBOLS ABOVE ARE FEATURED ON VERMONT'S TRAVEL INFORMATION PLAZAS, WHICH ARE FREE-STANDING OUTDOOR KIOSKS FOUND AT INTERSTATE REST AREAS, WELCOME CENTERS, AND NEAR KEY POINTS OF INTEREST. PLAZA LOCATIONS ARE INDICATED ON THE OFFICIAL STATE MAP BY THE SYMBOL ?.

MATERIALS:

SIGN BASE MATERIAL SHALL BE HIGH DENSITY OVERLAID PLYWOOD, 5/8" THICK, WHICH HAS BEEN SEALED ON THE EDGES AND PAINTED BLACK. THE BACK OF THE SIGNBOARD SHALL ALSO BE PAINTED BLACK. EACH SIGNBOARD IS TO BE DRILLED WITH FOUR 7/16" HOLES. THE INTERIOR OF THE HOLES SHALL BE PAINTED OR OTHERWISE SEALED AGAINST THE WEATHER.

DIRECTIONAL ARROWS AND MILEAGE NUMBERS WILL BE MADE OF REFLECTORIZED MATERIAL. (ENGINEERING GRADE)

COLOR:

SIGNBOARD FACES WILL HAVE BLACK BACKGROUND WITH WHITE BORDER. T.I.C.S. SYMBOL BACKGROUNDS WILL BE COLORED AS FOLLOWS:

LODGING - MAGENTA (PINK)
FOOD - ORANGE
CRAFTS & ANTIQUES - AQUA
RECREATION - BROWN
GOODS AND OTHER SERVICES - BLACK

ALL SYMBOLS WILL BE REFLECTORIZED.

TEXT LAYOUT:

NAME OF BUSINESS ENTERPRISE WILL BE IN UPPER AND LOWER CASE LETTERS STARTING FLUSH LEFT ON THE TOP LINE, AND MAY, ONLY WHEN NECESSARY, EXTEND TO THE SECOND LINE, (FLUSH LEFT ALSO). DIRECTIONAL INFORMATION WILL BE ALL IN LOWER CASE (NO CAPS), AND WILL ALWAYS BE ON THE SECOND LINE, EITHER FLUSH LEFT OR FOLLOWING THE END OF THE ESTABLISHMENT'S NAME.

OTHER STDs. E-160 REQUIRED:

REVISIONS AND CORRECTIONS

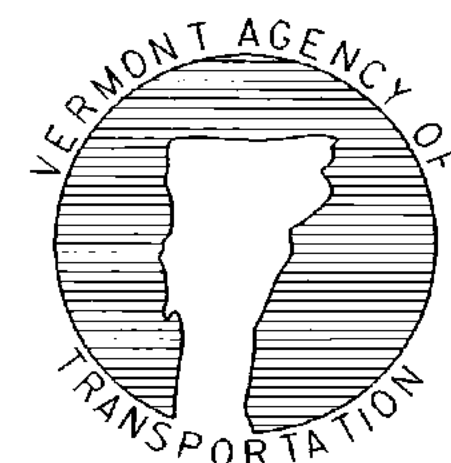
AUG. 22, 1988 - DATE OF ORIGINAL ISSUE
AUG. 08, 1995 - MINOR DETAIL AND NOTE REVISIONS

APPROVED

Samuel J. White
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

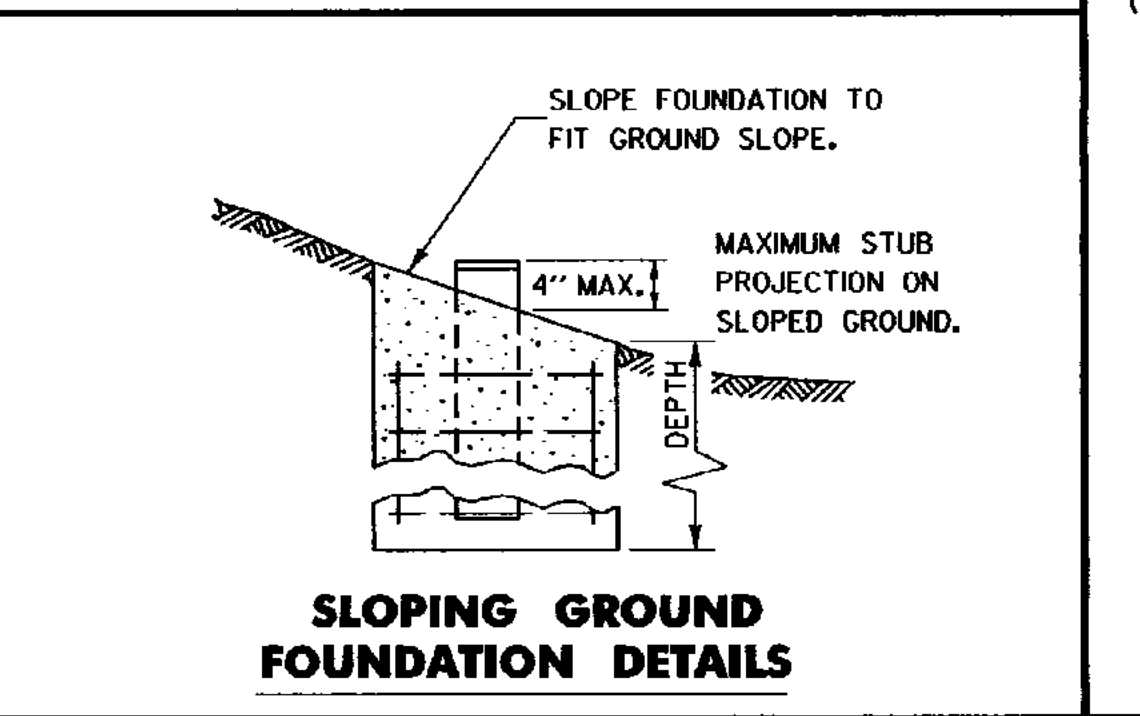
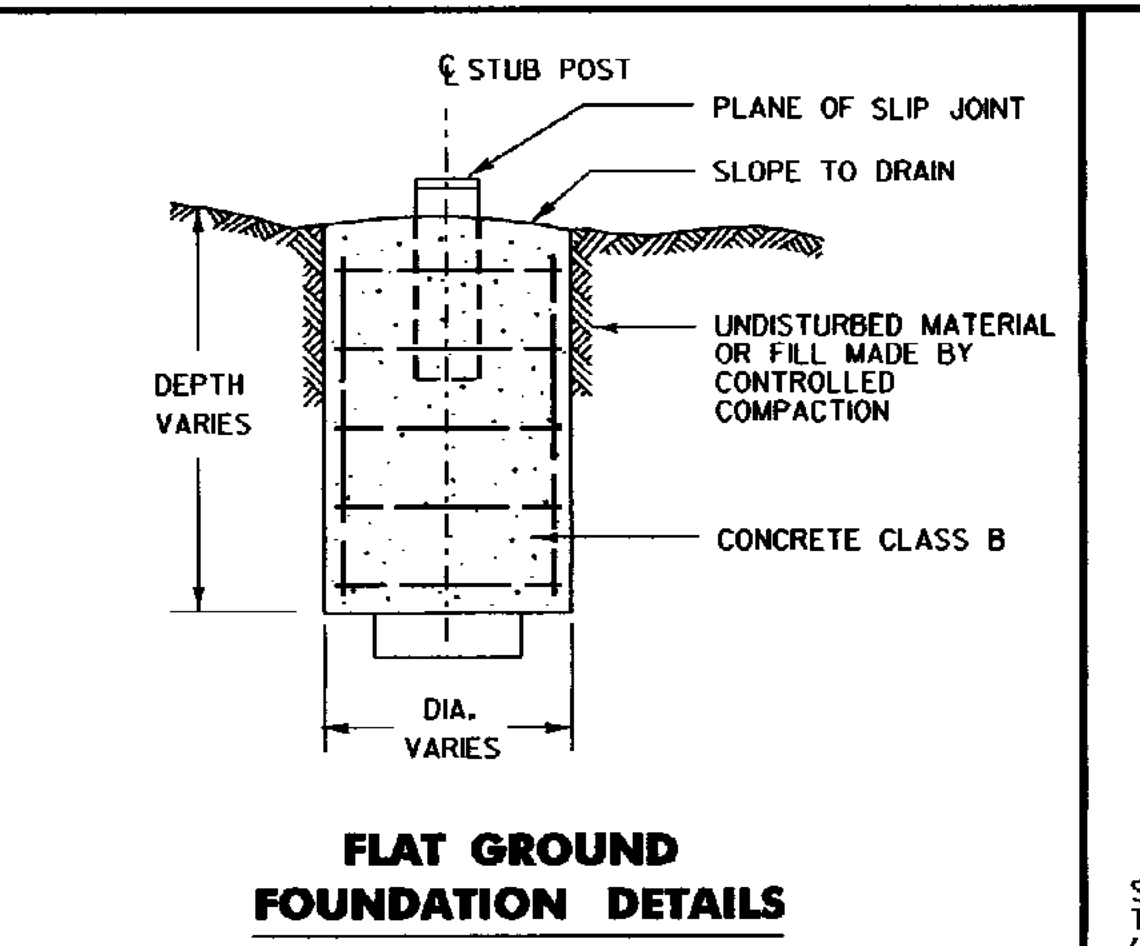
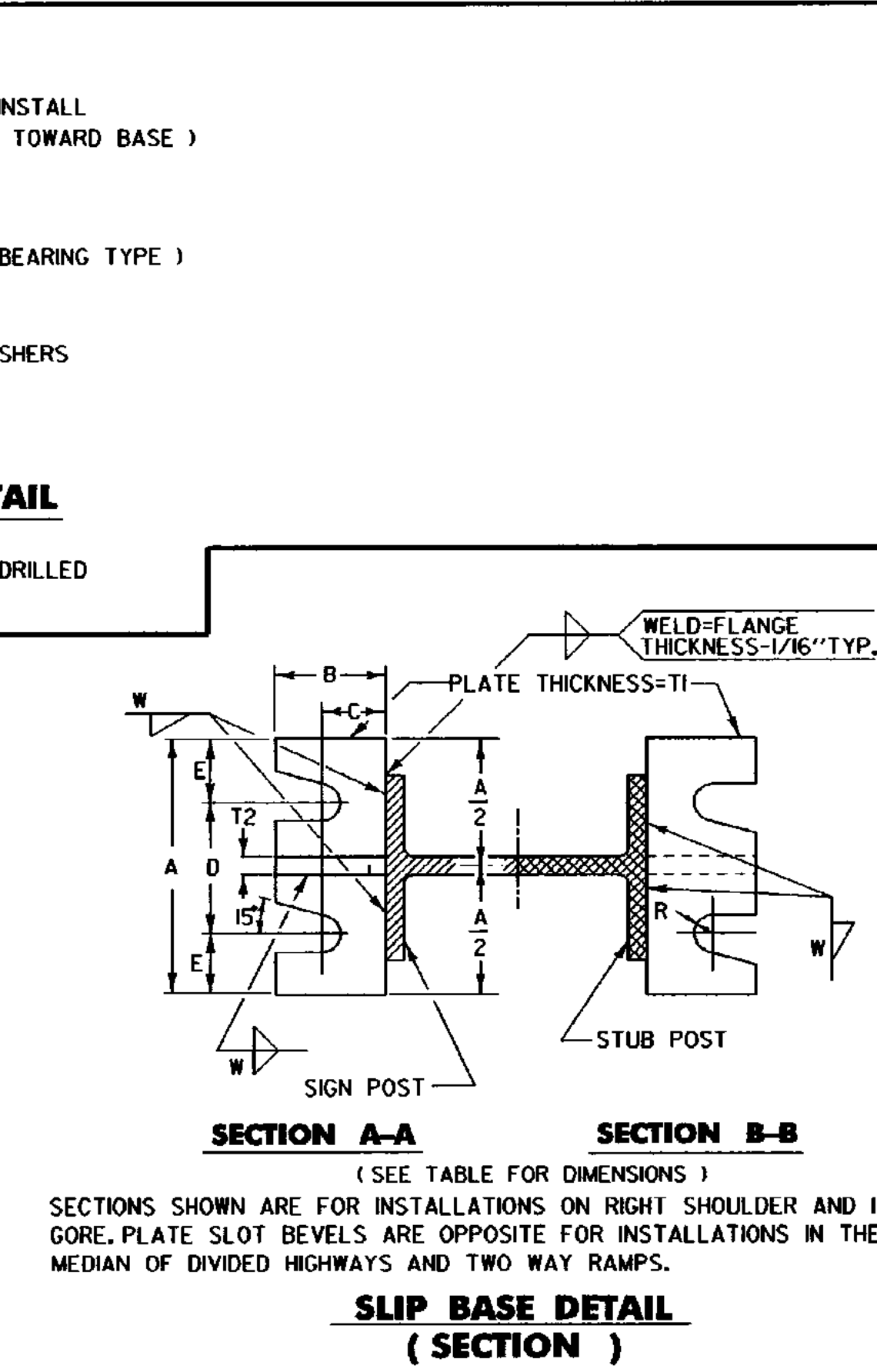
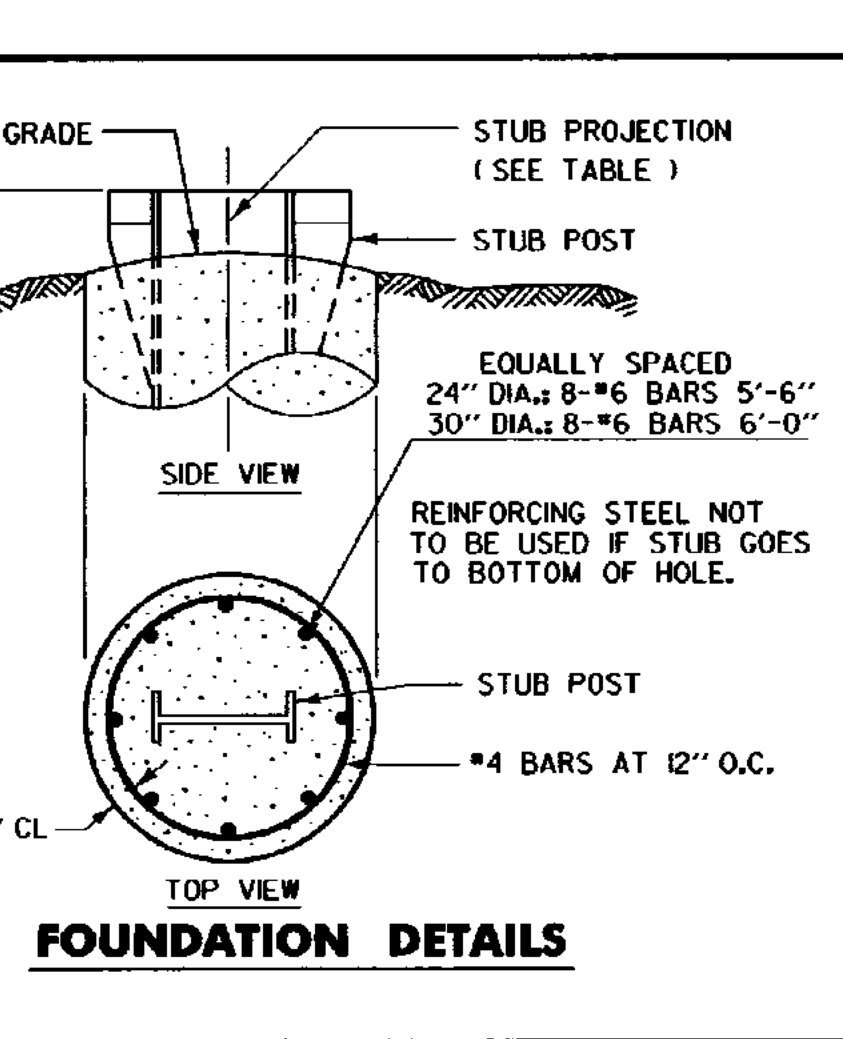
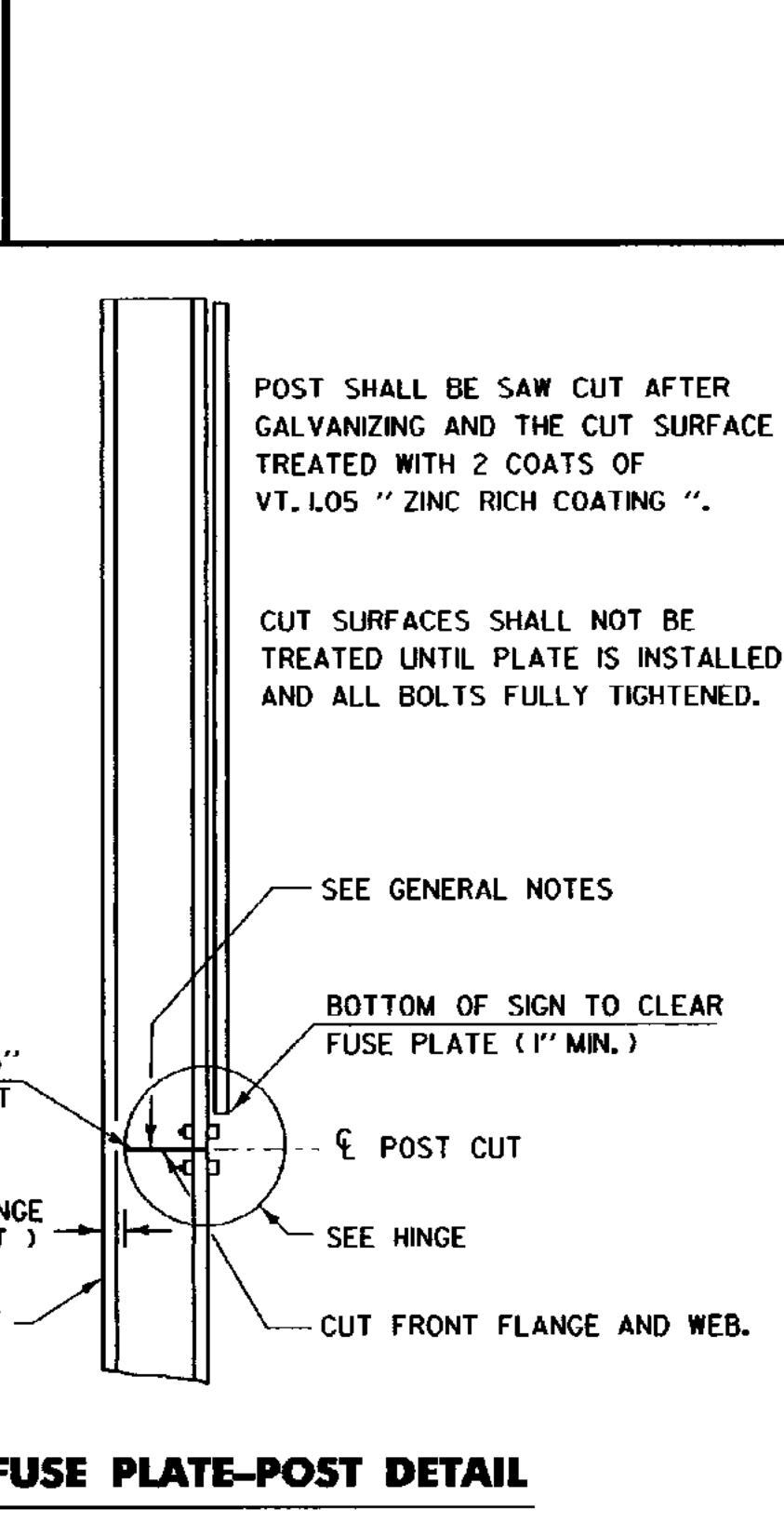
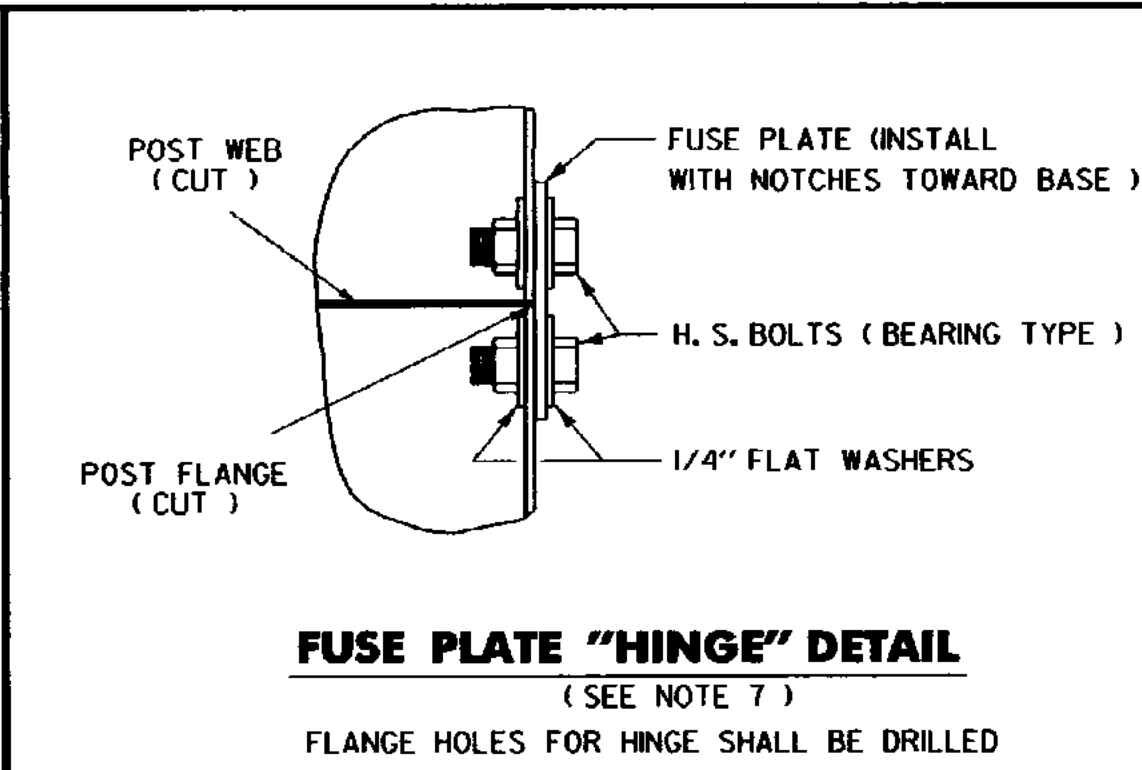
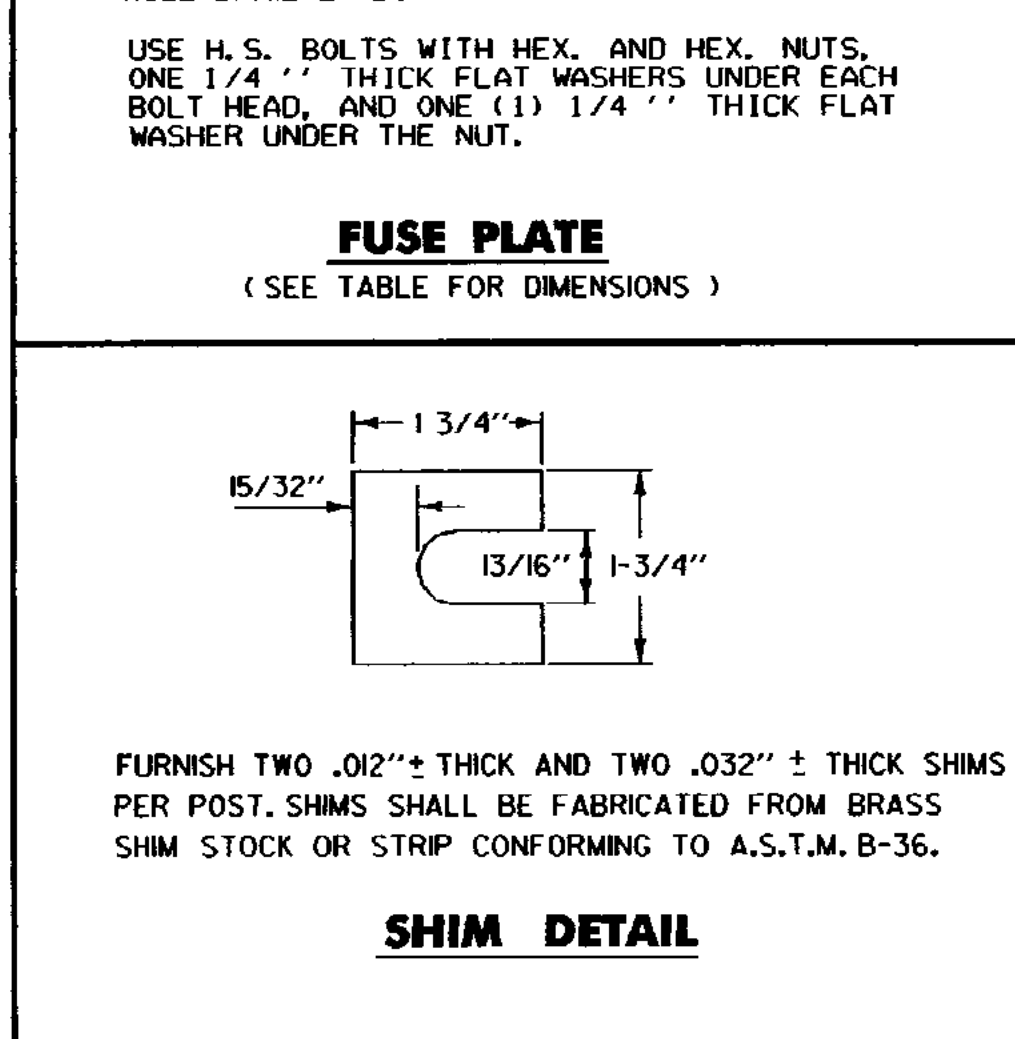
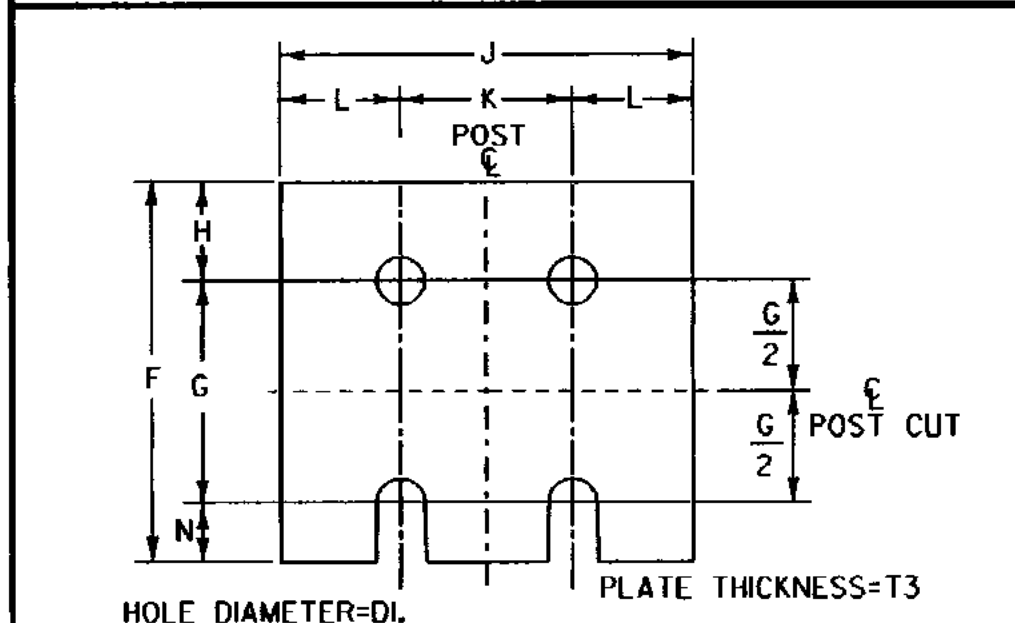
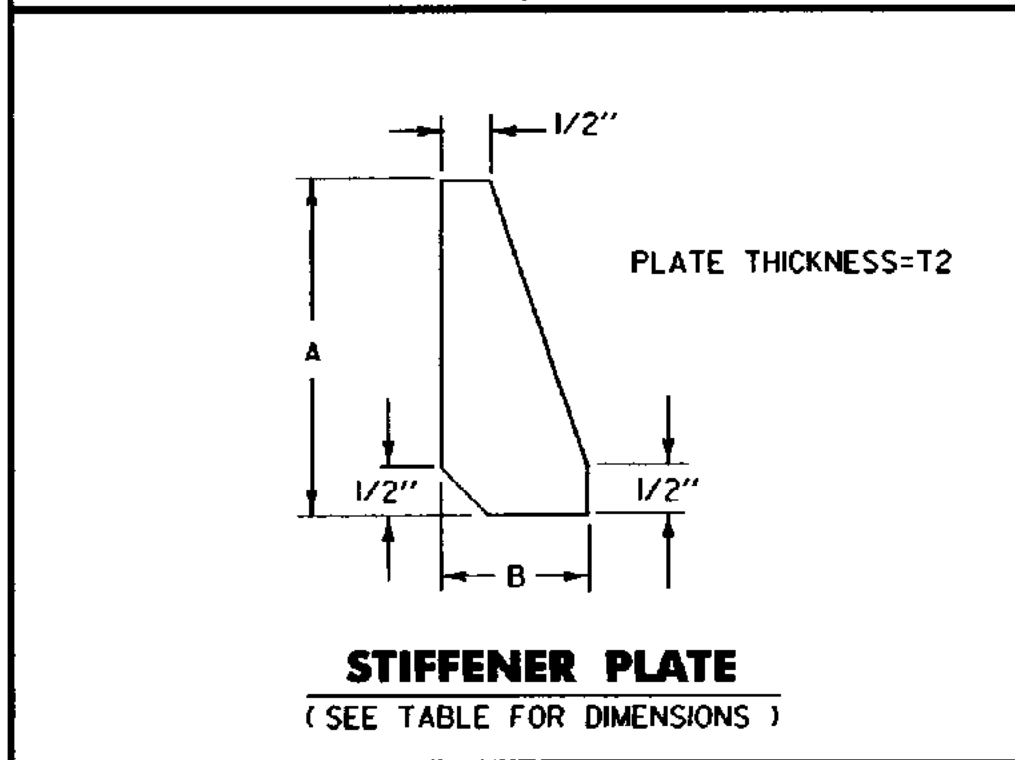
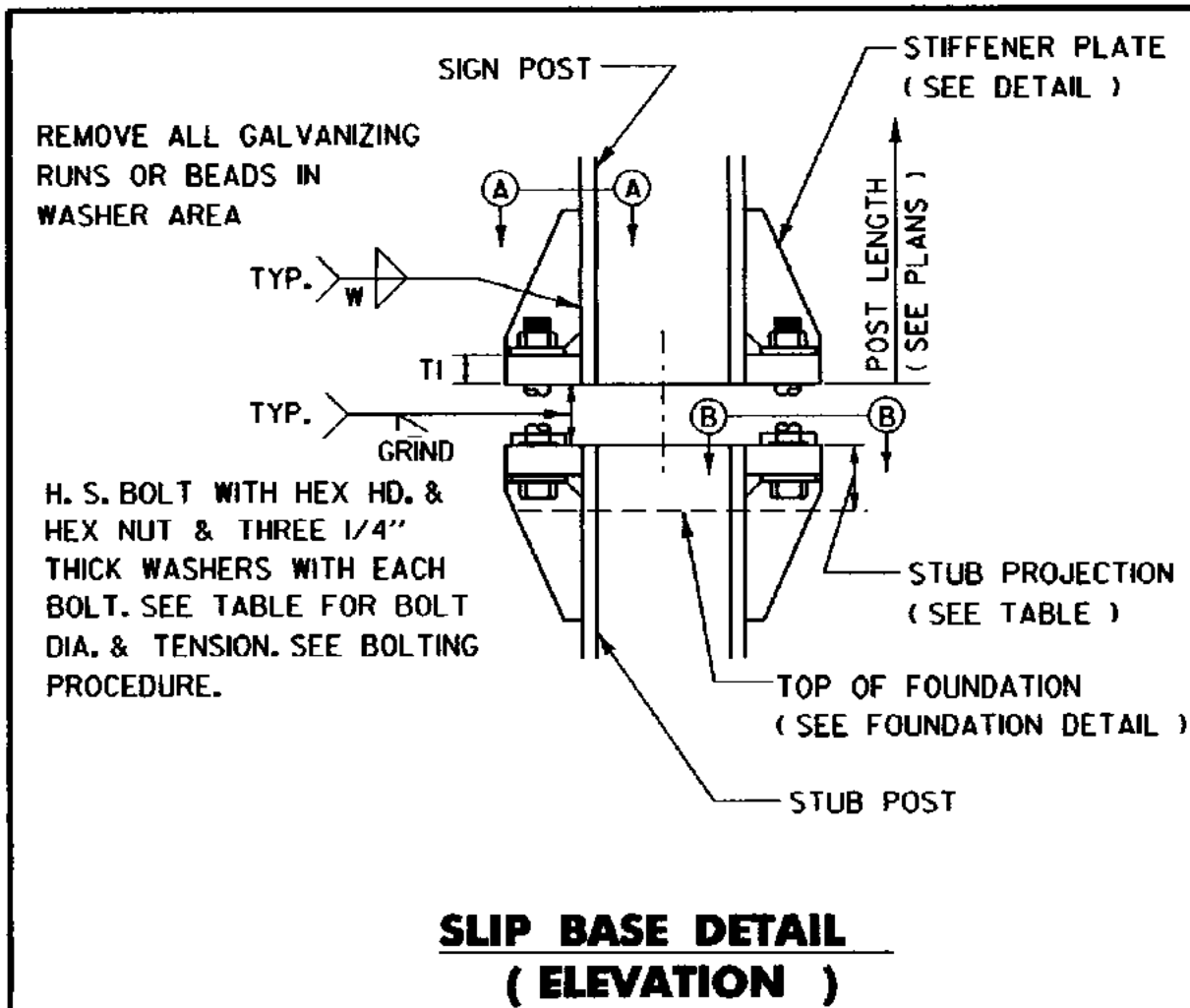
TRAVEL INFORMATION COUNCIL SIGNS



STANDARD E-125

/traf/std/stdel25.dgn : stdel25.i

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FHWA FINAL APPROVAL PENDING.



BASE CONNECTION DATA TABLE											FUSE PLATE DATA TABLE										FOUNDATION DATA					
POST SIZE	BOLT SIZE	A	B	C	D	E	T1	T2	W	R	F	G	H	J	K	L	N		DI	T3	BOLT DIA.	BASE DIA.	BASE DEPTH	MIN. STUB LENGTH	STUB PROJ.	VOLUME OF SINGLE BASE
W6X9	5/8" Ø x 3 1/2"	5"	2"	1 1/4"	2 3/4"	1 1/8"	3/4"	1/2"	1/4"	1 1/32"	3 5/8"	2"	1 1/8"	4"	2 1/4"	7/8"	1/2"		9/16"	1/4"	1/2"	24"	6'-0"	3'-0"	2 1/2"	0.70 C.Y.
W6X12											4 3/8"	2 1/2"	1 1/4"	6"	3 1/2"	1 1/4"	5/8"	1 1/16"	3/8"	5/8"						
W6X15											4 7/8"	2 1/2"	1 1/4"	5 1/4"	2 3/4"	1 1/4"	5/8"	1 1/16"	3/8"	5/8"						
W8X18											4 3/4"	2 1/2"	1 1/2"	5 1/4"	2 3/4"	1 1/4"	3/4"	1 1/16"	1/2"	3/4"						
W8X21	3/4" Ø x 4 1/2"	6"	2 1/4"	1 3/8"	3 1/2"	1 1/4"	1"	3/4"	5/16"	5/32"	5 1/4"	3"	1 1/2"	5 3/4"	2 3/4"	1 1/2"	3/4"		1 1/16"	1/2"	3/4"	30"	6'-6"	3'-0"	2 1/2"	1.2 C.Y.
W10X22											5 1/4"	3"	1 1/2"	5 3/4"	2 3/4"	1 1/2"	3/4"	1 1/16"	1/2"	3/4"						
W10X26											5 1/4"	3"	1 1/2"	6 1/2"	3 1/2"	1 1/2"	3/4"	1 1/16"	1/2"	3/4"						
W12X30											5 1/4"	3"	1 1/2"	6 1/2"	3 1/2"	1 1/2"	3/4"	1 1/16"	1/2"	3/4"						

• 5/8"

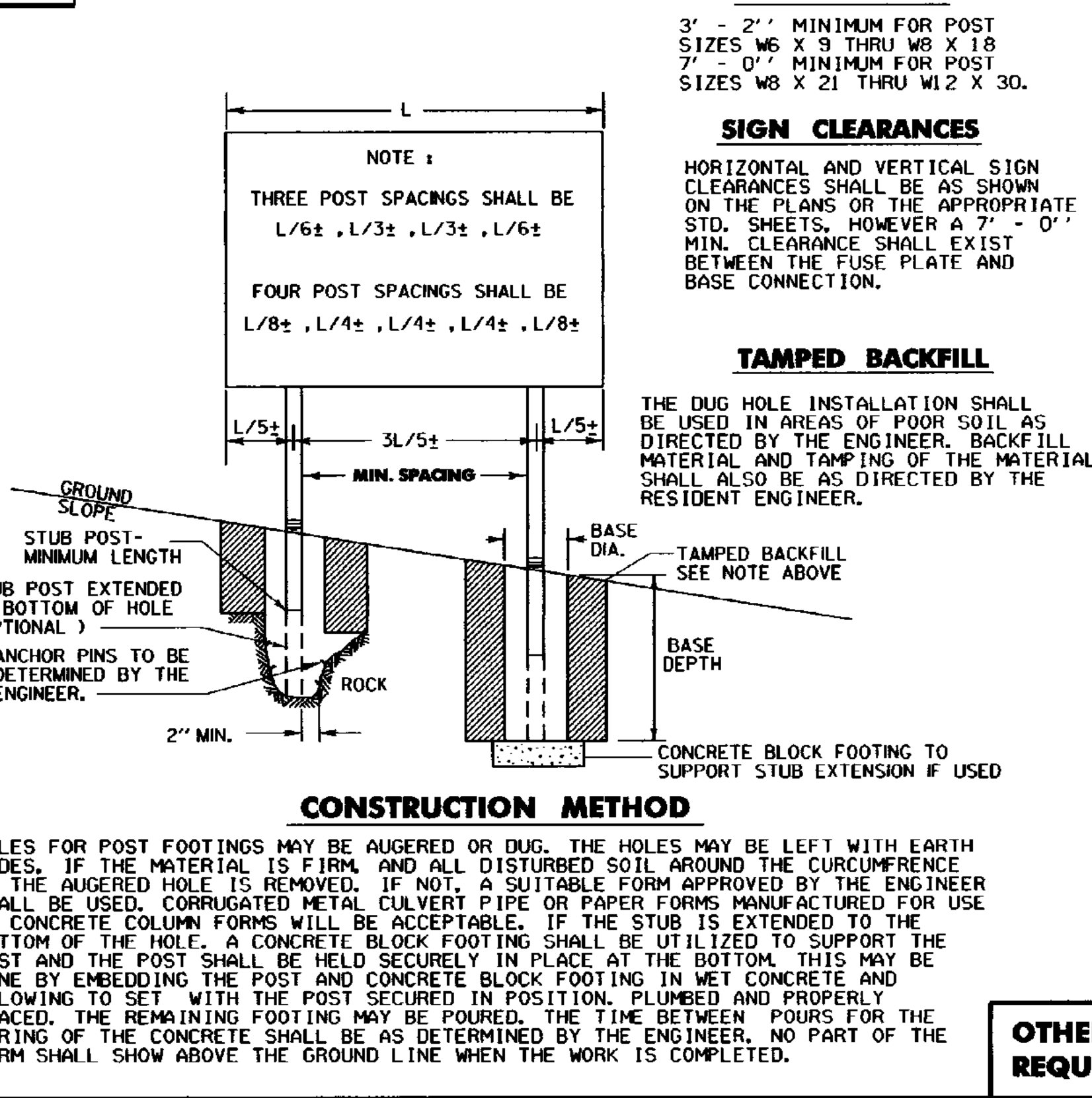
BOLTS SHALL HAVE A MINIMUM THREAD LENGTH OF 2 INCHES

•• 3/4"

BOLTS SHALL HAVE A MINIMUM THREAD LENGTH OF 2 1/4 INCHES

THESE BOLTS SHALL BE FURNISHED WITH TWO NUTS FOR EACH BOLT.

- MAKE SURE ALL BOLTS ARE FROM THE SAME STOCK.
 - TRY NUTS ON BOLT THREADS MAKING SURE THEY TURN EASILY.
 - PLACE (3) BOLTS IN "SKIDMORE - WILHELM" DEVICE. TORQUE TO PROPER TENSION IN DEVICE. CALIBRATE TORQUE WRENCH BY CHECKING ON THESE THREE BOLTS WHEN UNDER PROPER TENSION IN DEVICE.
 - USE THE AVERAGE OF THE THREE TORQUES ON SIMILAR BOLTS IN THE REAL SUPPORT.
 - ASSEMBLE POSTS TO STUB WITH BOLTS AND WITH THREE 1/4" FLAT WASHERS. (ONE EACH UNDER HEAD OF BOLT, BETWEEN PLATES, AND UNDER NUT.)
 - SHIM AS REQUIRED TO PLUMB POST.
 - TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH A 12" TO 15" WRENCH TO BED WASHERS AND SHIMS AND TO CLEAN BOLT THREADS. THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TENSION.
 - THE BASE PLATE BOLTS WILL BE TORQUED TO PRESCRIBED BOLT TENSION SHOWN BELOW. AFTER THE INITIAL TORQUING USE A SECOND NUT TO INSURE THAT THE FIRST NUT WILL NOT BACK OFF. THE CONTRACTOR WITH THE AGENCY INSPECTOR WILL RETURN TO THE SIGN TWO MORE TIMES AT INTERVALS OF 30 DAYS FOR THE PURPOSE OF CHECKING AND RE-ESTABLISHING THE PRESCRIBED TORQUE. THE SECOND NUT SHALL REMAIN AS A LOCK NUT.
 - THE "SKIDMORE - WILHELM" DEVICE IS AVAILABLE THROUGH THE V.A.O.T. CONSTRUCTION DIVISION.
- PROCEDURE FOR ASSEMBLY OF BASE CONNECTION**



- GENERAL NOTES**
- DESIGN CONFORMS WITH AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
 - MATERIAL AND FABRICATION SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SHEETS AND SPECIFICATIONS.
 - THE POST CUT SHALL BE A SAW CUT ONLY. ALL OTHER CUTS EXCLUDING POST CUTS MAY BE FLAME CUT PROVIDED ALL EDGES ARE GROUND SMOOTH. METAL PROJECTING BEYOND THE PLATE FACE WILL NOT BE PERMITTED. ALL POST HOLES SHALL BE DRILLED.
 - ALL SAW CUTS SHALL BE PAINTED WITH AN APPROVED COATING.
 - EXTREME CARE SHOULD BE TAKEN TO KEEP THE SLIP JOINT FREE OF ANY FOREIGN MATERIAL, EITHER BY WRAPPING THE JOINT OR THOROUGH CLEANING IMMEDIATELY AFTER POURING OF CONCRETE.
 - ALL FUSE PLATE BOLTS SHALL BE TIGHTENED BY THE FABRICATOR TO THE PRESCRIBED BOLT TENSION. THE CONTRACTOR WILL BE HELD RESPONSIBLE TO CHECK AND CERTIFY THAT THE REQUIRED RESIDUAL TENSIONS ARE OBTAINED.
 - THE TOTAL WEIGHT OF TWO (2) POSTS WITH 3' - 2" SPACING OR A SINGLE POST OF A TWO (2) POSTS INSTALLATION WITH 7' - 0" SPACING SHALL NOT EXCEED 600 POUNDS BELOW THE FUSE PLATE.
 - THE AMOUNT OF TORQUE NECESSARY TO ACHIEVE THE PROPER BOLT TENSION FOR BOTH THE "FUSE PLATE" AND THE "SLIP BASE" SHALL BE DETERMINED BY USE OF A SUITABLE TORQUE WRENCH CALIBRATED IN A "SKIDMORE-WILHELM" DEVICE. THE PROCEDURE FOR CALIBRATING THE WRENCH IS OUTLINED IN THE "PROCEDURE FOR ASSEMBLY OF BASE CONNECTION" ON THIS SHEET.
 - DUE TO THE VARIABILITY OF THE GALVANIZATION ON THE BOLTS, NUTS, AND WASHERS, ETC., NO FORMULA OR TABLES SHALL BE USED TO CALCULATE THE REQUIRED CONVERSION FROM BOLT TENSION TO APPLIED TORQUE. UNLESS APPROVED BY TRAFFIC AND SAFETY DIVISION.
 - THE INSPECTION OF THE "FUSE PLATE BOLTS" SHALL BE AS OUTLINED IN THE MOST RECENT EDITION OF AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES", SECTION 11.5.6 "CONNECTIONS USING HIGH STRENGTH BOLTS".
 - INSPECTION OF THE "SLIP BASE BOLTS" SHALL BE AS FOLLOWS: USING A TORQUE WRENCH WHICH HAS BEEN CALIBRATED IN THE "SKIDMORE-WILHELM" DEVICE WITH THREE BOLTS OF THE SAME GRADE, SIZE AND CONDITION AS THOSE UNDER INSPECTION. THE INSPECTOR SHALL SET THE WRENCH FOR MAXIMUM SETTING SHOWN BELOW FOR "SLIP BASE BOLTS" AND TEST ALL "SLIP BASE BOLTS" IN EACH ASSEMBLY.
 - IF THE BOLT BEING TESTED TURNS MORE THAN 5 UPON APPLICATION OF THE WRENCH SET TO THE MAXIMUM, THE INSPECTOR SHALL SET THE WRENCH TO THE MINIMUM AND RETEST THE BOLT. IF THE BOLT TURNS LESS THAN 5 UPON APPLICATION OF THE WRENCH SET TO MINIMUM, IT SHALL BE CONSIDERED ACCEPTABLE. IF THE BOLT TURNS MORE THAN 5 UPON APPLICATION OF THE WRENCH SET TO MINIMUM, IT SHALL BE TIGHTENED AT LEAST TO THE MINIMUM.
 - IF THE BOLT BEING TESTED TURNS LESS THAN 5 UPON APPLICATION OF THE WRENCH SET TO MAXIMUM, IT SHALL BE LOOSENED AND RETIGHTENED SO THAT IT FALLS WITHIN THE RANGE SPECIFIED AND REINSPECTED AS OUTLINED ABOVE.
 - SLIP BASE BOLT TENSIONS

BOLT SIZE	MIN. BOLT TENSION	MAX. BOLT TENSION
5/8" DIA.	1740 LBS.	2660 LBS.
3/4" DIA.	2400 LBS.	3660 LBS.
 - ALL DIMENSIONS REFERRING TO STUB HEIGHT IN THE VARIOUS TABLES AND FOUNDATION DETAILS SHALL BE ADJUSTED AS REQUIRED TO RESULT IN A TOTAL STUB HEIGHT WHICH IS NOT MORE THAN FOUR INCHES ABOVE A 60-INCH CHORD ALIGNED RADIALLY TO THE CENTERLINE OF THE HIGHWAY AND CONNECTING ANY POINT, WITHIN THE LENGTH OF THE CHORD, ON THE GROUND SURFACE ON ONE SIDE OF THE SUPPORT TO A POINT ON THE GROUND SURFACE ON THE OTHER SIDE.

REVISIONS AND CORRECTIONS

SEPT. 10, 1987 - DATE OF ORIGINAL ISSUE

MAR. 21, 1988 - FHWA COMMENTS

JUNE 21, 1989 - FHWA - CHANGE TO 7" FUSE PLATE CLEARANCE

OCT. 21, 1992 - REVISED NOTES AND POST SPACING REQUIREMENTS

AUG. 18, 1995 - REVISED GENERAL NOTE 4

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION. FHWA FINAL APPROVAL PENDING.

APPROVED

Stephen B. MacArthur
DIRECTOR OF ENGINEERING

David O. Ross
TRAFFIC AND SAFETY ENGINEER

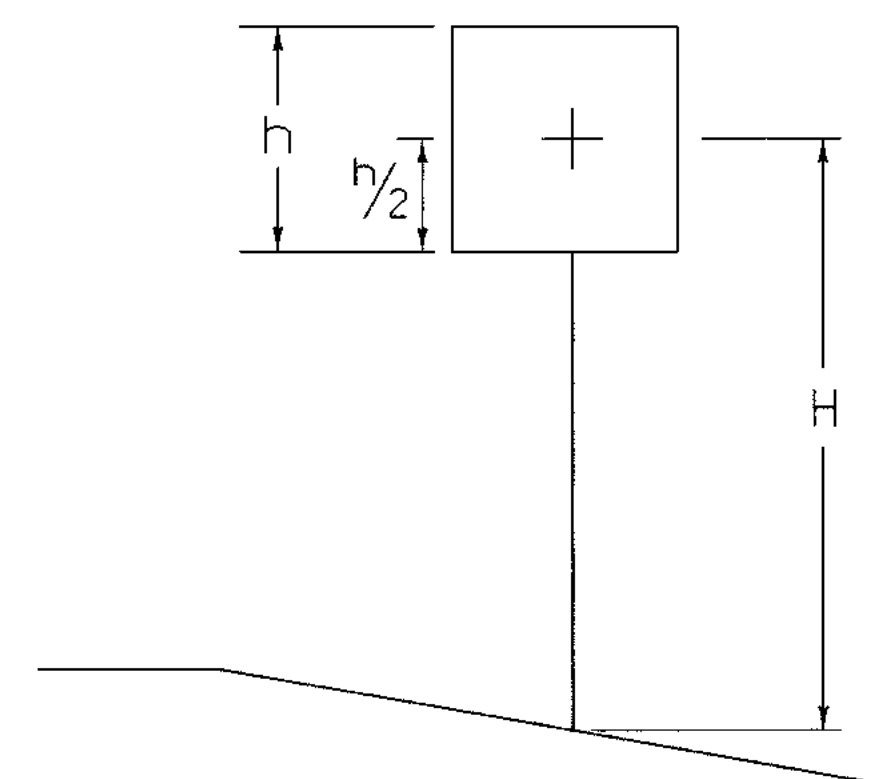
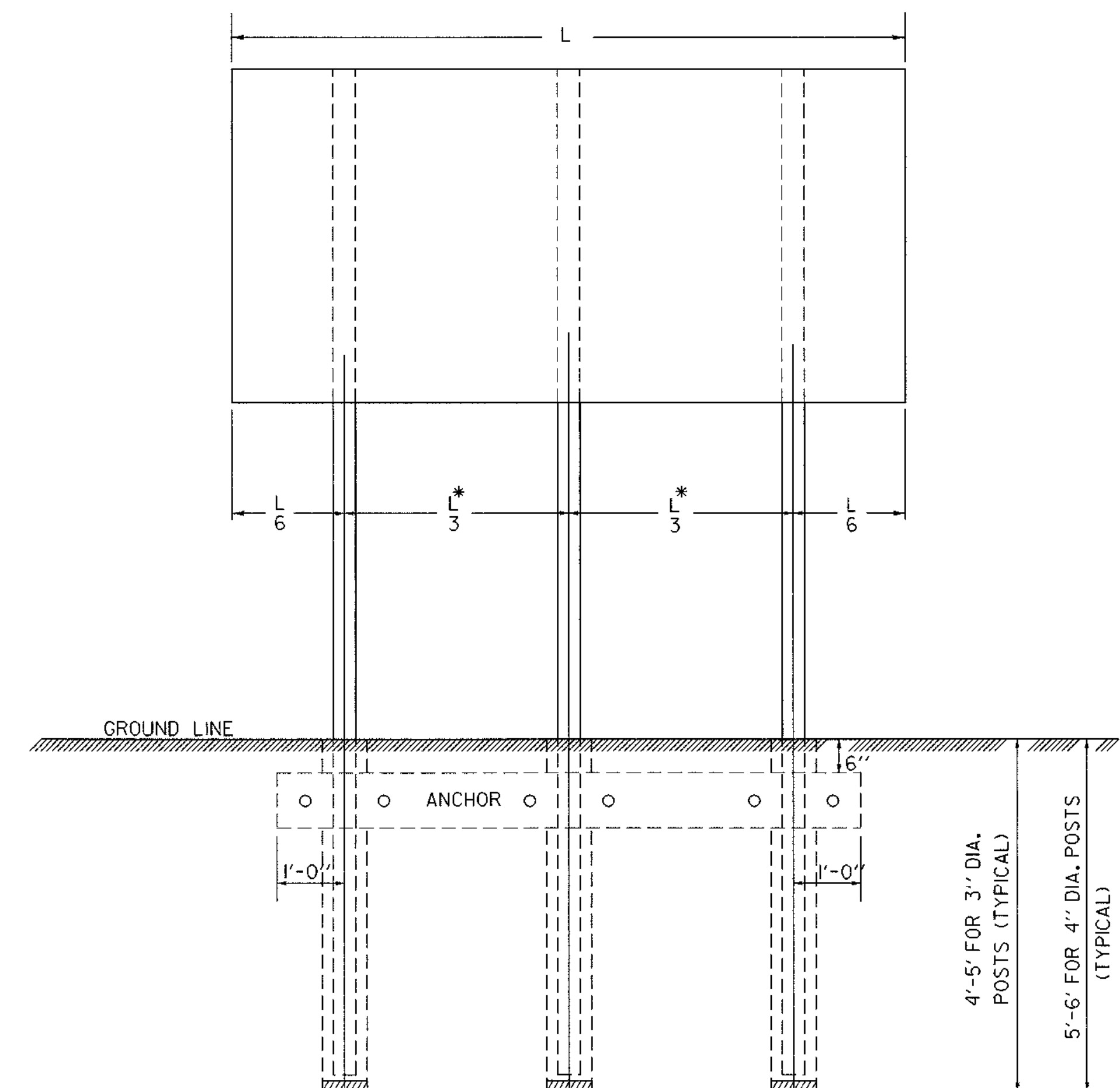
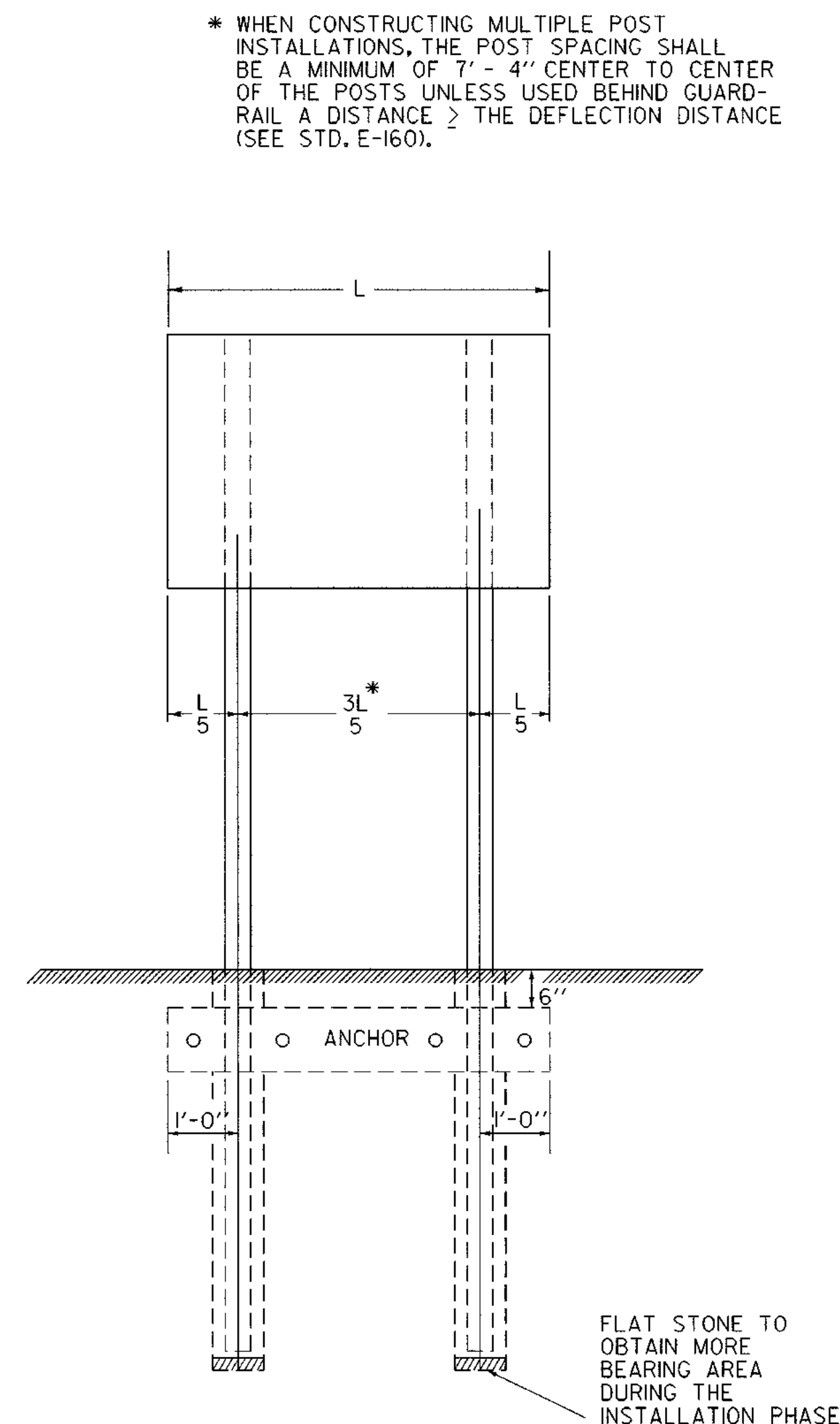
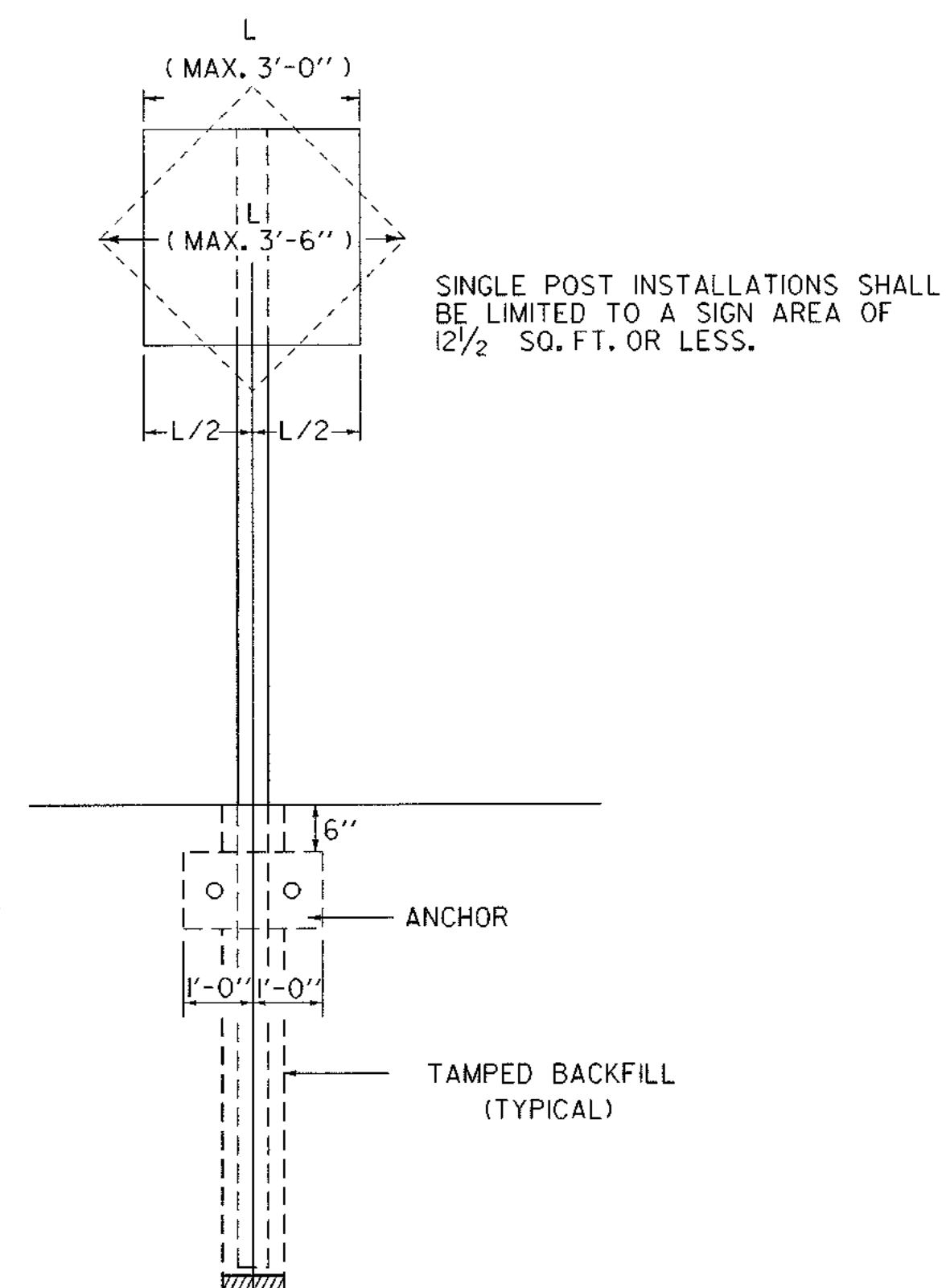
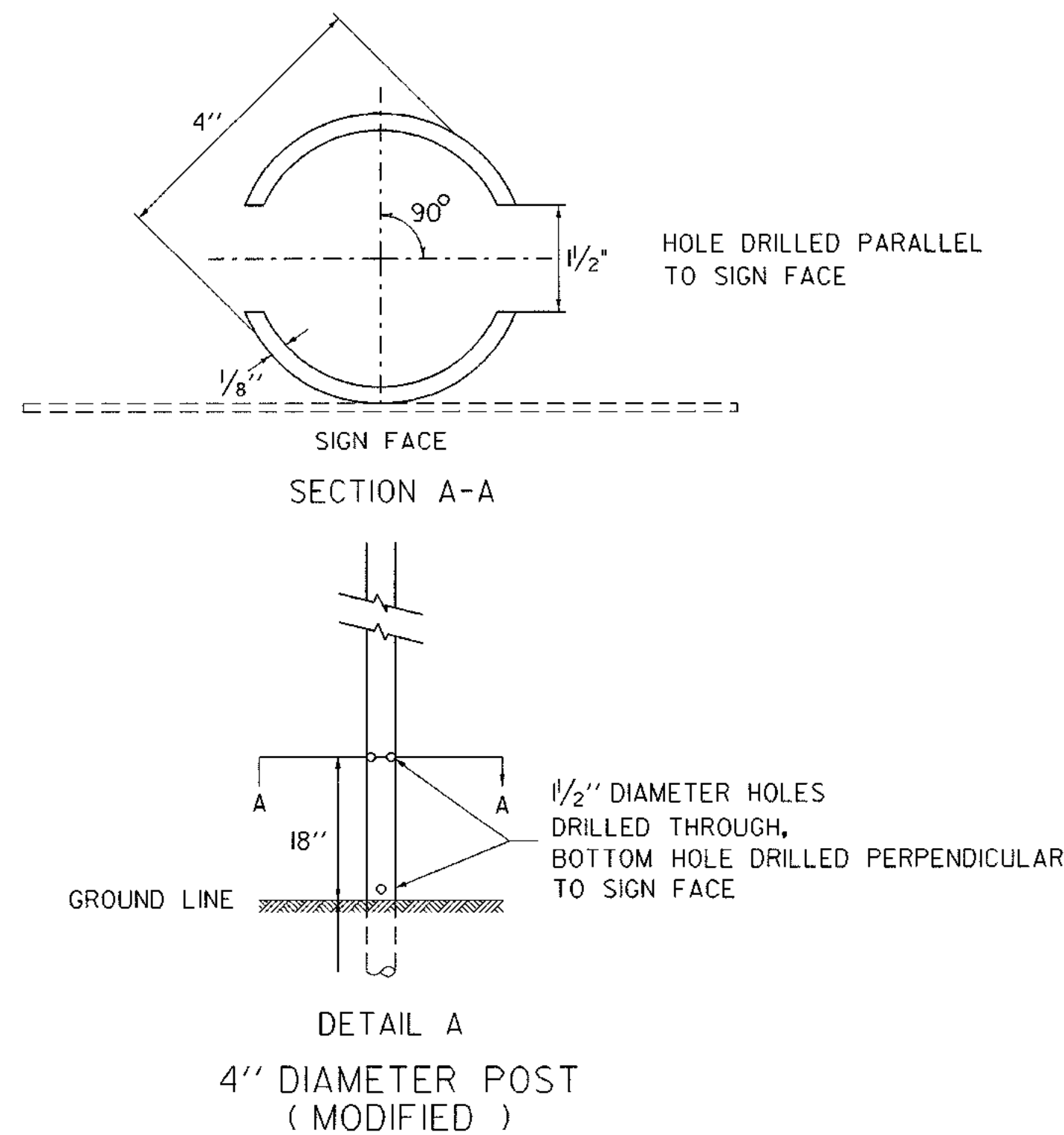
W-SHAPED STEEL SIGN POST

/traf/std/stdel6l.dgn : stdel6l.i

OTHER STDS. REQUIRED:

VERMONT AGENCY OF TRANSPORTATION

STANDARD E-161



POST SELECTION CHART		
SIGN AREA (FT ²) x H (FT.) ≤ SV (SELECTION VALUE)		
POST SIZE	SV (FT. ³)	DESIGN CRITERIA
3" DIA.	156	WIND VELOCITY = 60 MPH (10 YEAR MEAN RECURRENCE INTERVAL)
4" DIA.*	286	WIND PRESSURE = 14 PSF
4" DIA. (MOD)*	282	ALUMINUM F _y = 24,000 PSI ALLOWABLE STRESS = 1.4 (24,000) PSI

TWO POST INSTALLATIONS - USE ONLY BEHIND GUARDRAIL
* AT A DISTANCE ≥ THE GUARDRAIL DEFLECTION DISTANCE.
(SEE STD. E-160)

POST WEIGHTS		
POST DIAMETER	WALL THICKNESS	WEIGHT PER FT.
3" ROUND	1/8"	1.3 LBS
4" ROUND	1/8"	1.7 LBS
4" ROUND (MOD.)	1/8"	1.7 LBS

NOTES

ANCHORS USE TWO (2) PIECES OF 2" x 12" ROUGH PLANK. PLANKS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SECTION 728.02

ERECTION LOCKNUTS ON 3/8" # 16 ALUMINUM POST BOLT CLIPS SHALL BE TORQUED TO 225 INCH POUNDS USING DRY, CLEAN, UNLUBRICATED THREADS. WHERE ALUMINUM SURFACES ARE TO BE PLACED IN CONTACT WITH WOOD, THEY SHALL BE GIVEN A THICK COAT OF AN ALKALI-RESISTANT BITUMINOUS PAINT MEETING THE REQUIREMENTS OF MILITARY SPECIFICATION MIL-P-6883, WHICH SHALL BE DRY BEFORE INSTALLATION.

THE HOLE SHALL BE CAREFULLY DUG AND THE POST SET TO THE DEPTH SPECIFIED ABOVE. POST SHALL NOT BE DRIVEN. THE BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF APPROVED GRAVEL OR SHALL BE A MATERIAL APPROVED BY THE ENGINEER. COMPACTION OF THE BACKFILL WILL BE PERFORMED AS DIRECTED BY THE ENGINEER.

OTHER STDS. E-160 REQUIRED:

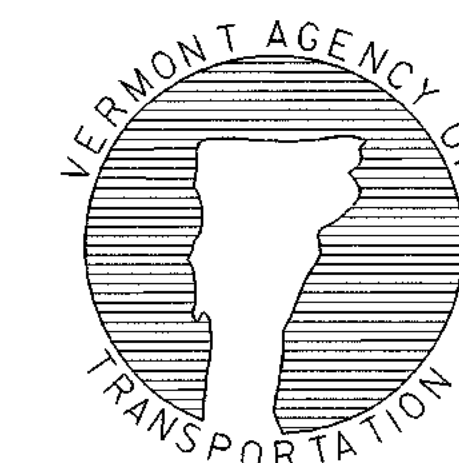
REVISIONS AND CORRECTIONS

SEPT. 10, 1987 - DATE OF ORIGINAL ISSUE
MAR. 11, 1988 - FHWA REVIEW COMMENTS
AUG. 18, 1995 - REVISED POST WALL THICKNESS AND APPROPRIATE VALUES. ADDED 4" DIAMETER (MOD.) POST.
MAR. 11, 1996 - REVISED POST SELECTION CHART
MAY 20, 1999 - ORIGINAL LOST NEEDED NEW SIGNATURE

APPROVED

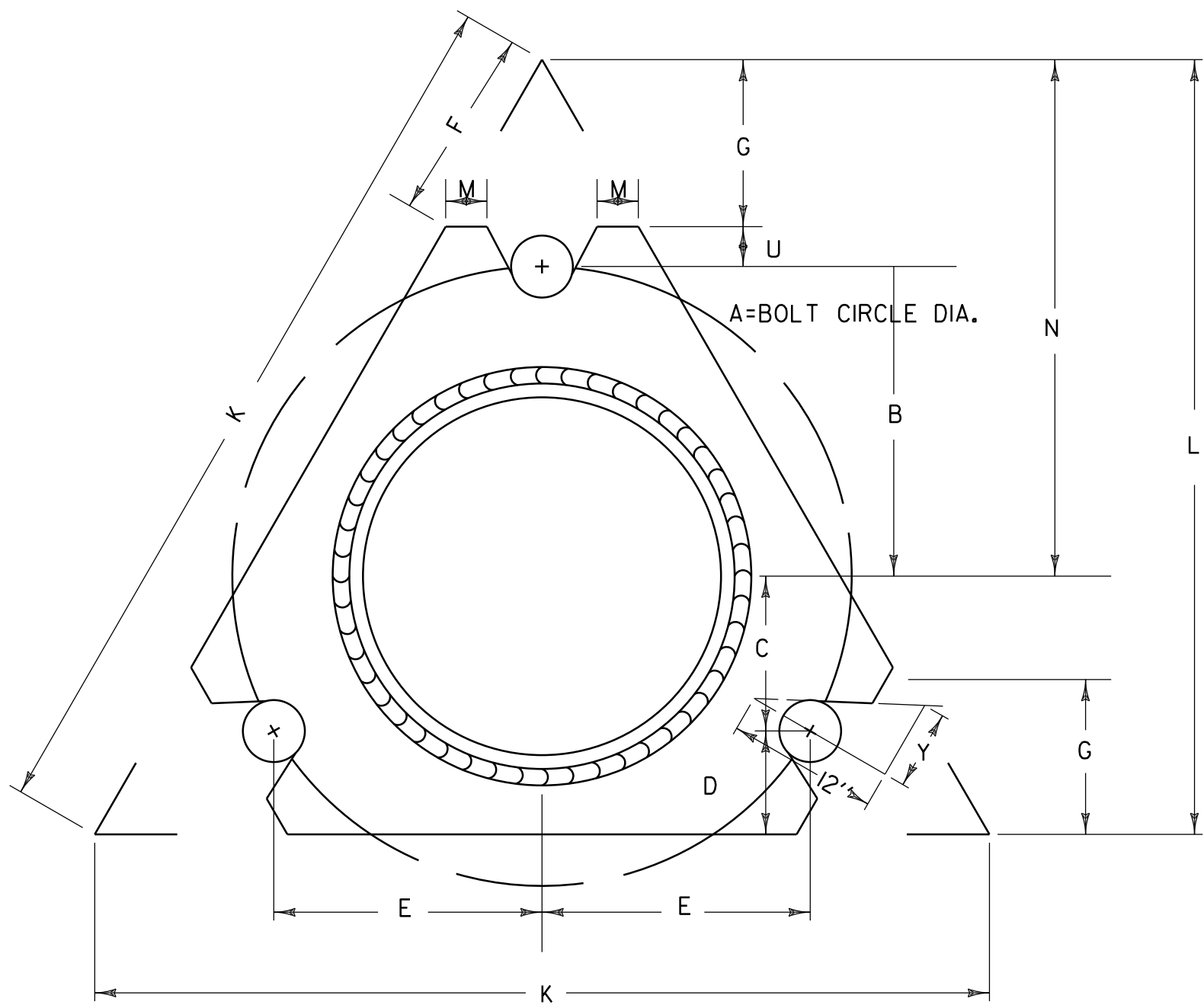
[Signature]
DIRECTOR OF PROJECT DEVELOPMENT

TUBULAR ALUMINUM SIGN POST



STANDARD
E-162

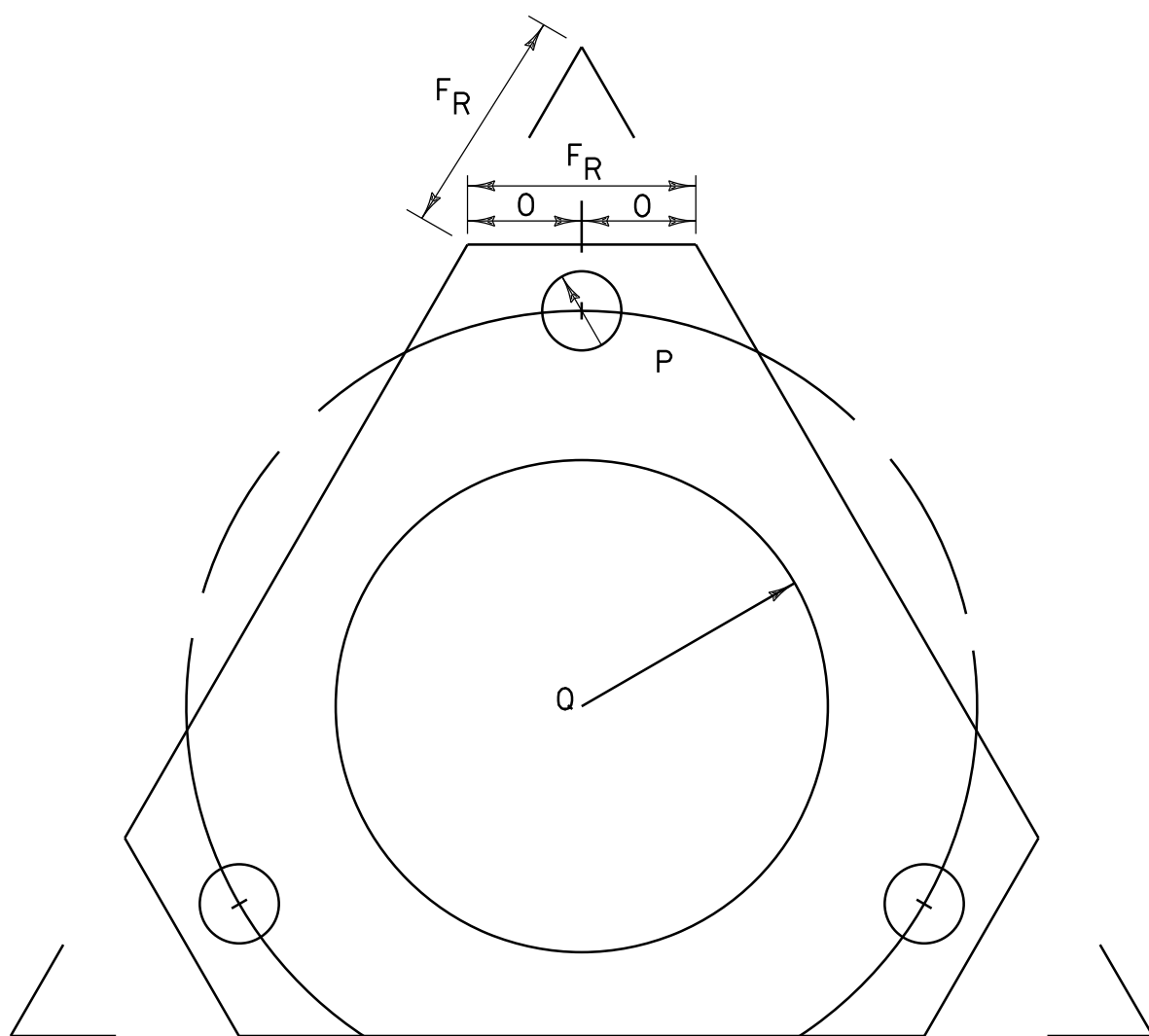
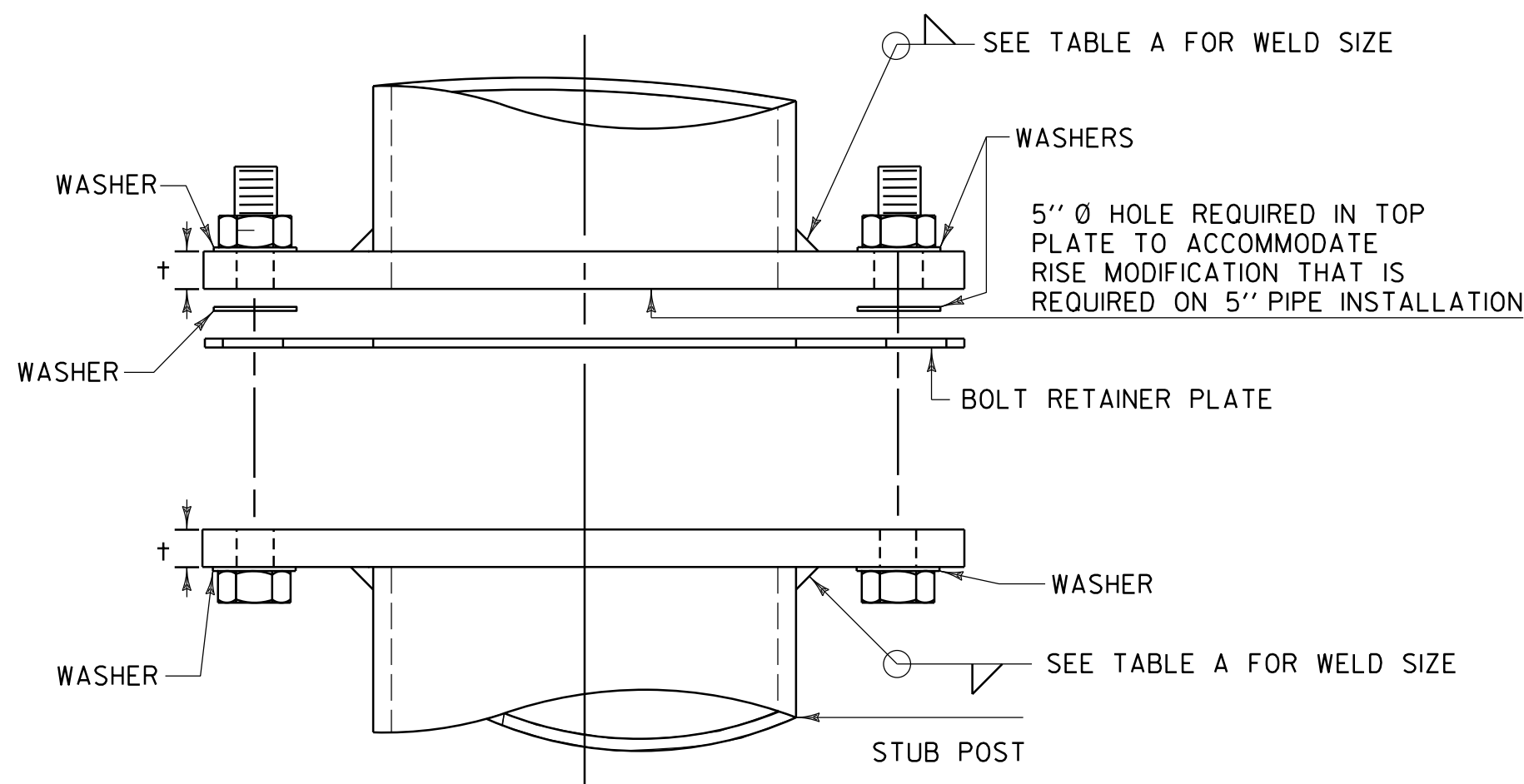
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**DETAILS OF
MULTI-DIRECTIONAL SLIP
BASE**

TABLE A

DIMENSIONS NOMINAL PIPE SIZES	BOLT SIZE & TORQUE	WELD SIZE	t	Y	A	B	C	D	E	F	G	K	L	M	U	N
3" DIA.	5/8"Ø×3 1/4"	3/8"	5/8"	7"	7"	3 1/2"	1 3/4"	1 1/4"	3"	2 5/8"	2"	10 3/8"	9"	1 1/2"	1 1/2"	6"
3 1/2" DIA.	T=450"LB.S.															
4" DIA.	3/4"Ø×3 3/4"	7/16"	7/8"	8 3/16"	9"	4 1/2"	2 1/4"	1 1/2"	3 7/8"	2 7/8"	2 1/2"	13"	11 1/4"	5 5/8"	1 1/2"	7 1/2"
5" DIA.	T=750"LB.S.															

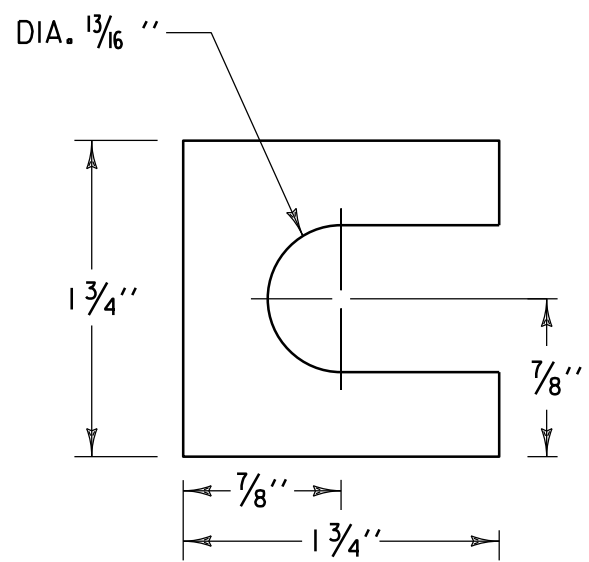


BOLT RETAINER PLATE

25 GAUGE (0.0247") OR THINNER GALVANIZED STEEL

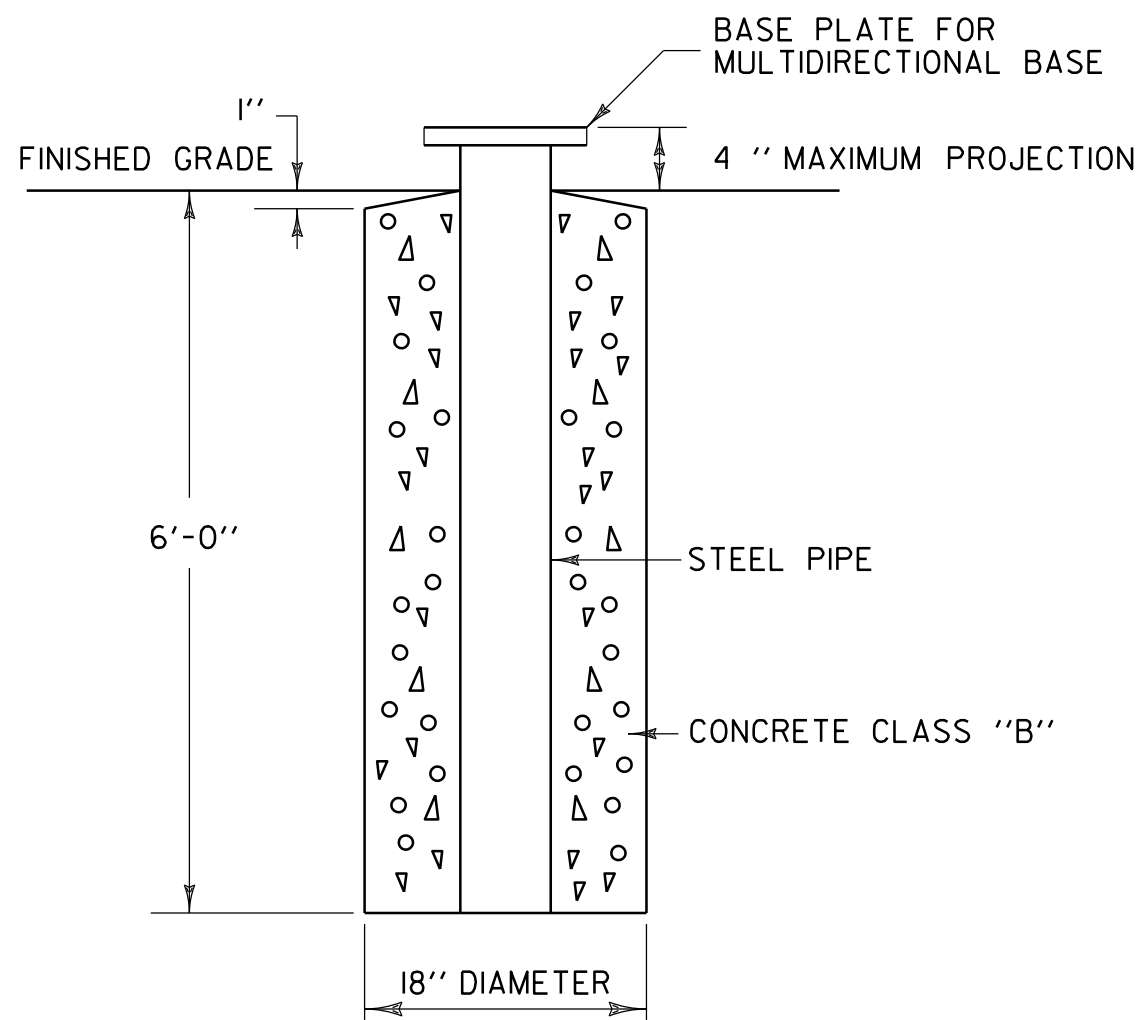
BOLT RETAINER PLATE SIMILAR IN DETAIL TO THE BASE PLATES WITH THE FOLLOWING EXCEPTIONS

DIMENSIONS NOMINAL PIPE SIZES	F _R	O	P	Q
3" DIA.	2 1/8"	1 1/16"	1 1/16"	2 1/2"
3 1/2" DIA.				
4" DIA.	2 5/8"	1 5/16"	1 3/16"	2 7/8"
5" DIA.				

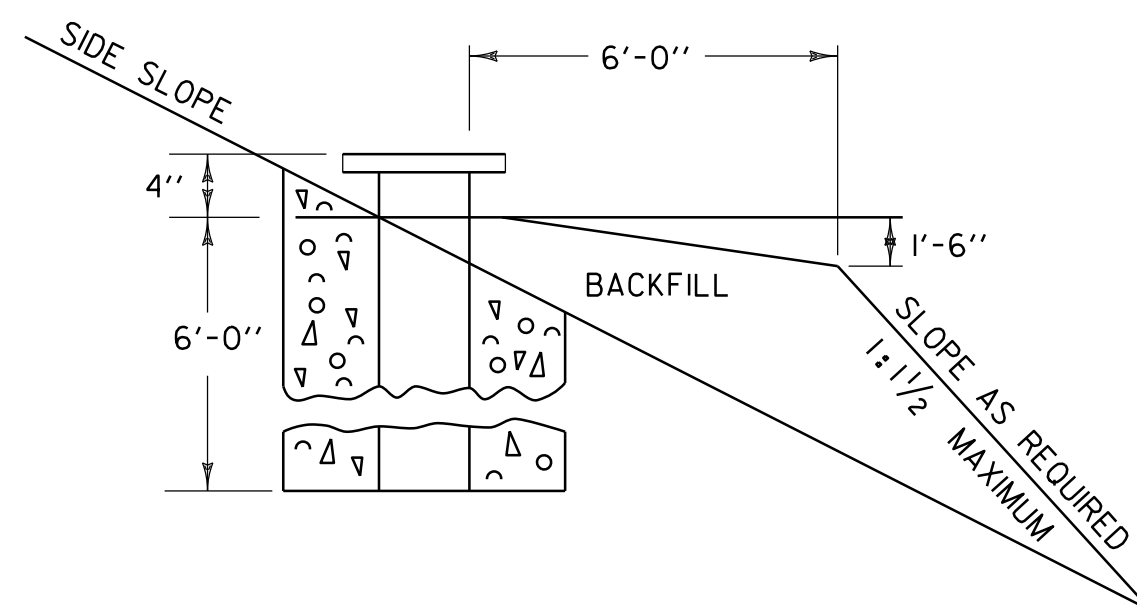


SHIM DETAIL

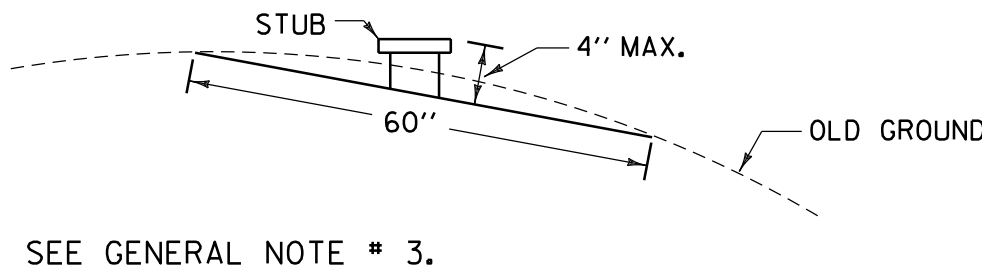
FURNISH 2-0.012" THICK AND 2-0.032" THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM 836



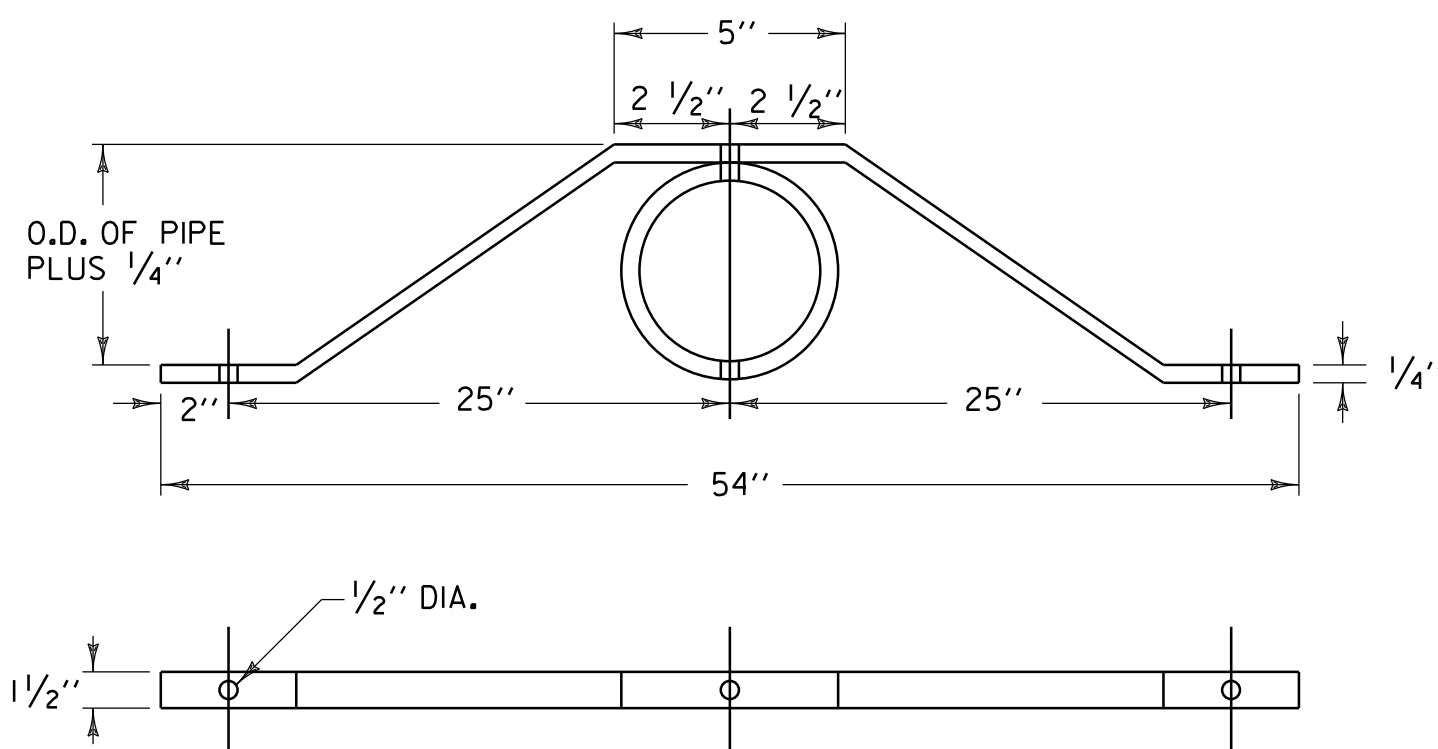
FOUNDATION DETAIL



SIDE SLOPE TREATMENT



SEE GENERAL NOTE # 3.



SIGN SUPPORT BRACE

(REQUIRED WHEN INSTALLING 3 ASSEMBLY FRAME)

GENERAL NOTES

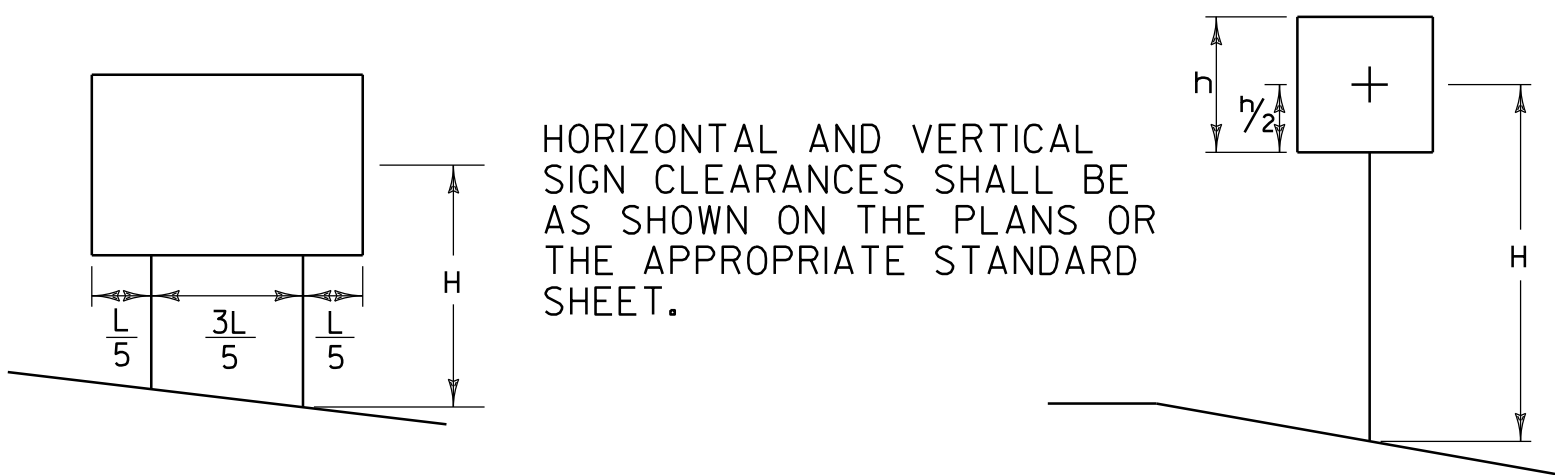
1. THE MATERIAL FOR THE MULTI-DIRECTIONAL SLIP BASE ASSEMBLY SHALL CONFORM TO AASHTO M-270, GRADE 36 STEEL, AND BE GALVANIZED AS PER ASTM A-153.
2. THE BOLTS, NUTS AND CIRCULAR WASHERS SHALL CONFORM TO ASTM SECTION 15 A-325, "HIGH STRENGTH CARBON STEEL BOLTS FOR STRUCTURAL STEEL JOINTS". ALL BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED AS PER ASTM A-123
3. ALL DIMENSIONS REFERRING TO STUB HEIGHT IN THE VARIOUS TABLES AND FOUNDATION DETAILS SHALL BE ADJUSTED AS REQUIRED TO RESULT IN A TOTAL STUB HEIGHT WHICH IS NOT MORE THAN FOUR INCHES ABOVE A 60- INCH CHORD ALIGNED RADIALLY TO THE CENTERLINE OF THE HIGHWAY AND CONNECTING ANY POINT, WITHIN THE LENGTH OF THE CHORD, ON THE GROUND SURFACE ON ONE SIDE OF THE SUPPORT TO A POINT ON THE GROUND SURFACE ON THE OTHER SIDE.

BOLTING PROCEDURE

1. SHIM AS REQUIRED TO PLUMB POST.
2. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 13 TO 16" WRENCH TO BED WASHERS AND SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN BOLTS IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. DO NOT OVERTIGHTEN.
3. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

CONSTRUCTION METHOD

HOLES FOR POST FOOTINGS MAY BE AUGERED OR DUG, IF THE MATERIAL IS FIRM AND IF ALL DISTURBED SOIL AROUND THE CIRCUMFERENCE OF THE THE AUGERED HOLE IS REMOVED, THE HOLES MAY BE LEFT WITH EARTH SIDES. IF NOT, A SUITABLE FORM APPROVED BY THE ENGINEER SHALL BE USED. CORRUGATED METAL CULVERT PIPE OR PAPER FORMS, MANUFACTURED FOR USE AS CONCRETE COLUMN FORMS, WILL BE ACCEPTABLE. THE STUB SHALL BE EXTENDED TO THE BOTTOM OF THE HOLE AND SET ON THE CONCRETE PAD FOOTING TO SUPPORT THE POST SO THE POST SHALL BE HELD SECURELY IN PLACE AT THE BOTTOM. THIS MAY BE DONE BY EMBEDDING THE POST AND CONCRETE BLOCK FOOTING IN WET CONCRETE, AND ALLOWING TO SET WITH THE POST SECURED IN POSITION; PLUMBED AND PROPERLY BRACED. THE REMAINDER OF THE FOOTING MAY THEN BE POURED. THE TIME BETWEEN POURS FOR THE CURING OF THE CONCRETE SHALL BE AS DETERMINED BY THE ENGINEER. THE FORM SHALL BE LEFT IN PLACE AND THE HOLE BACKFILLED AND COMPACTED AS DIRECTED BY THE ENGINEER. NO PART OF THE FORM SHALL SHOW ABOVE THE GROUND LINE WHEN THE WORK IS COMPLETED.



POST SELECTION CHART DETAIL

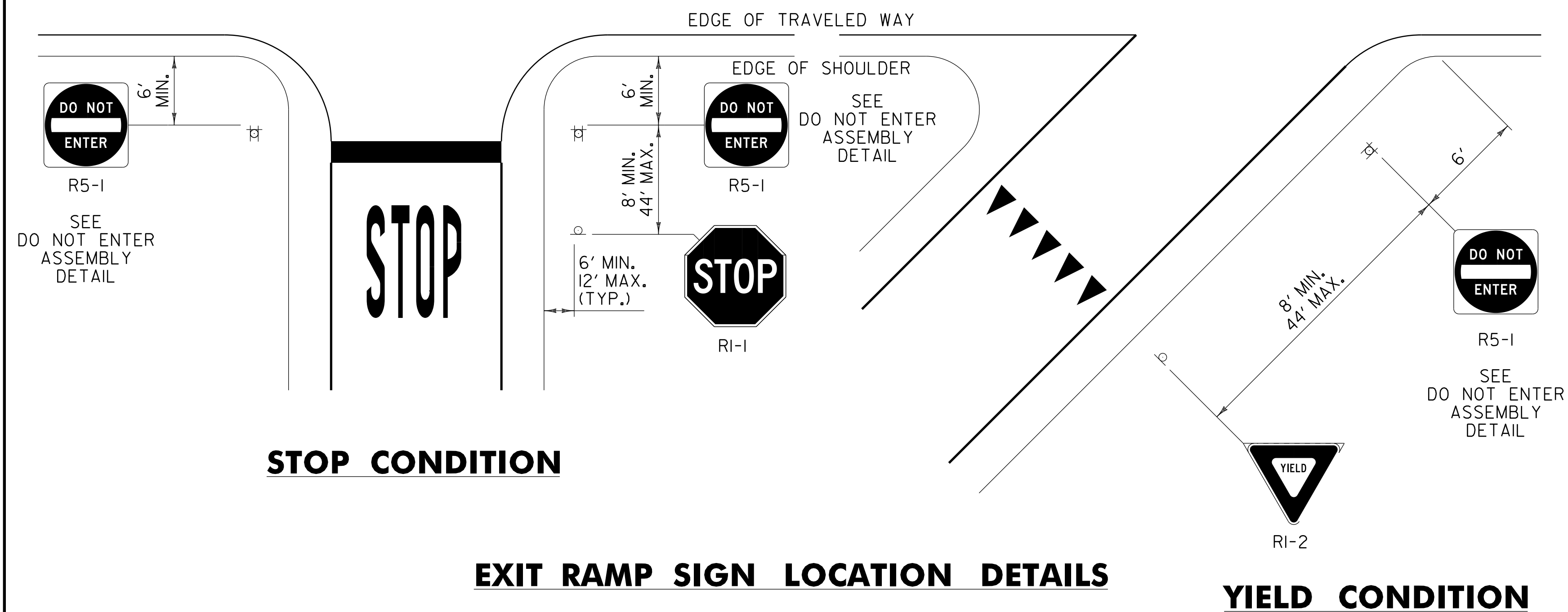
POST SELECTION CHART			
SIGN AREA (FT ²) × H (FT) ≤ SV (SELECTION VALUE)			
POST DIA. INCHS	WEIGHT LB/FT	Sv	DESIGN CRITERIA
3	7.6	318	WIND SPEED = 60 MPH (10-YEAR MEAN RECURRENCE INTERVAL) WIND PRESSURE = 15 PSF STEEL MIN YIELD F _y = 36,000 PSI ALLOWABLE STRESS = (1.4) 0.66 F _y
3 1/2	9.0	442	
4	10.8	593	
5	14.6	1007	

REV.	DATE	DESCRIPTION
0	SEPT. 26, 1987	ORIGINAL APPROVAL
1	AUG. 18, 1995	REVISED TITLE BLOCK
2	MAR. 11, 1996	REVISED POST SELECTION CHART
4	MAR. 10, 2017	REVISED SLIP BASE DETAIL, ADDED SHIM DETAIL, ADDED BOLTING PROCEDURE
OTHER STANDARDS REQUIRED:		
VTRANS AND FHWA APPROVAL ON FILE WITH CONTRACT ADMINISTRATION		

TUBULAR STEEL SIGN POST

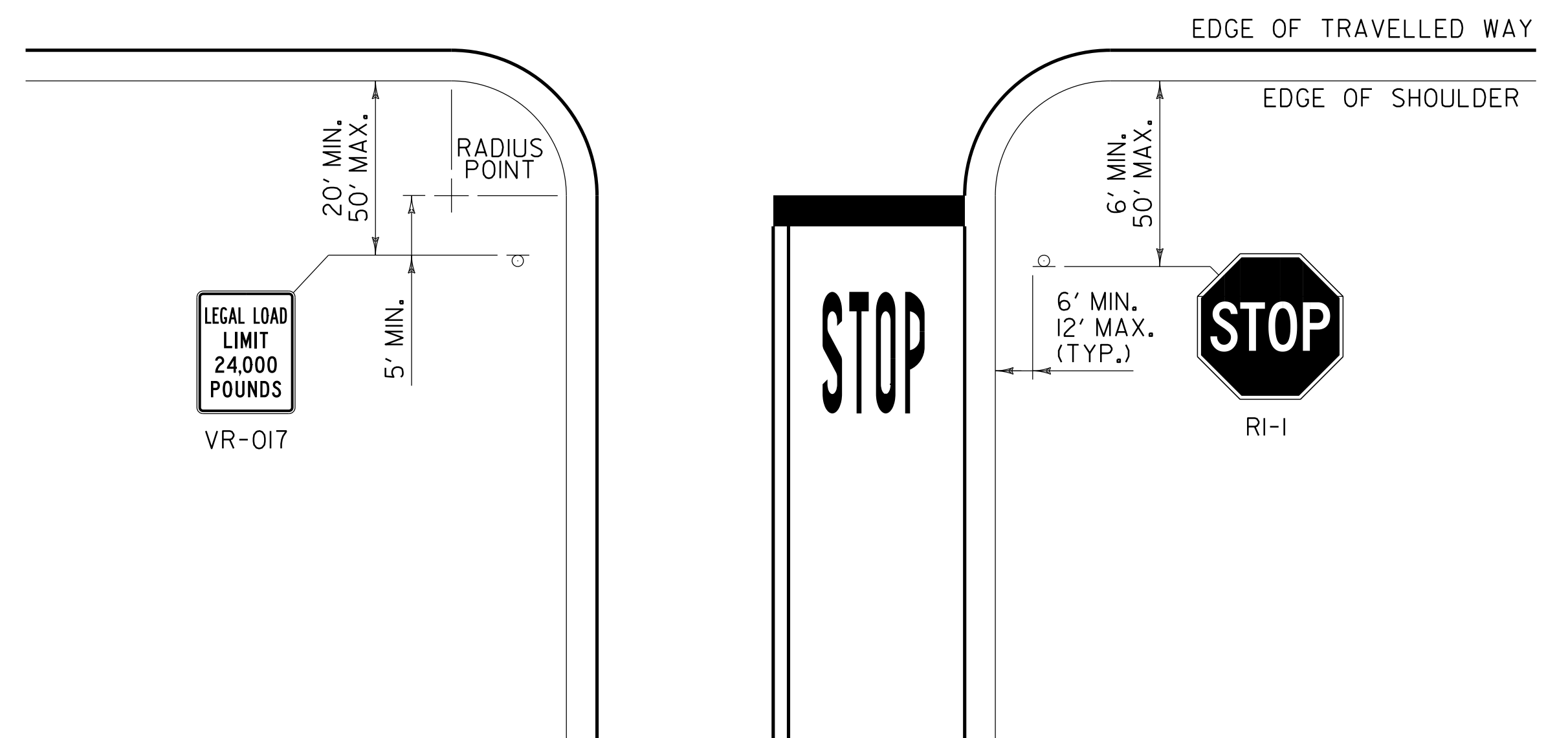


STANDARD
E-163



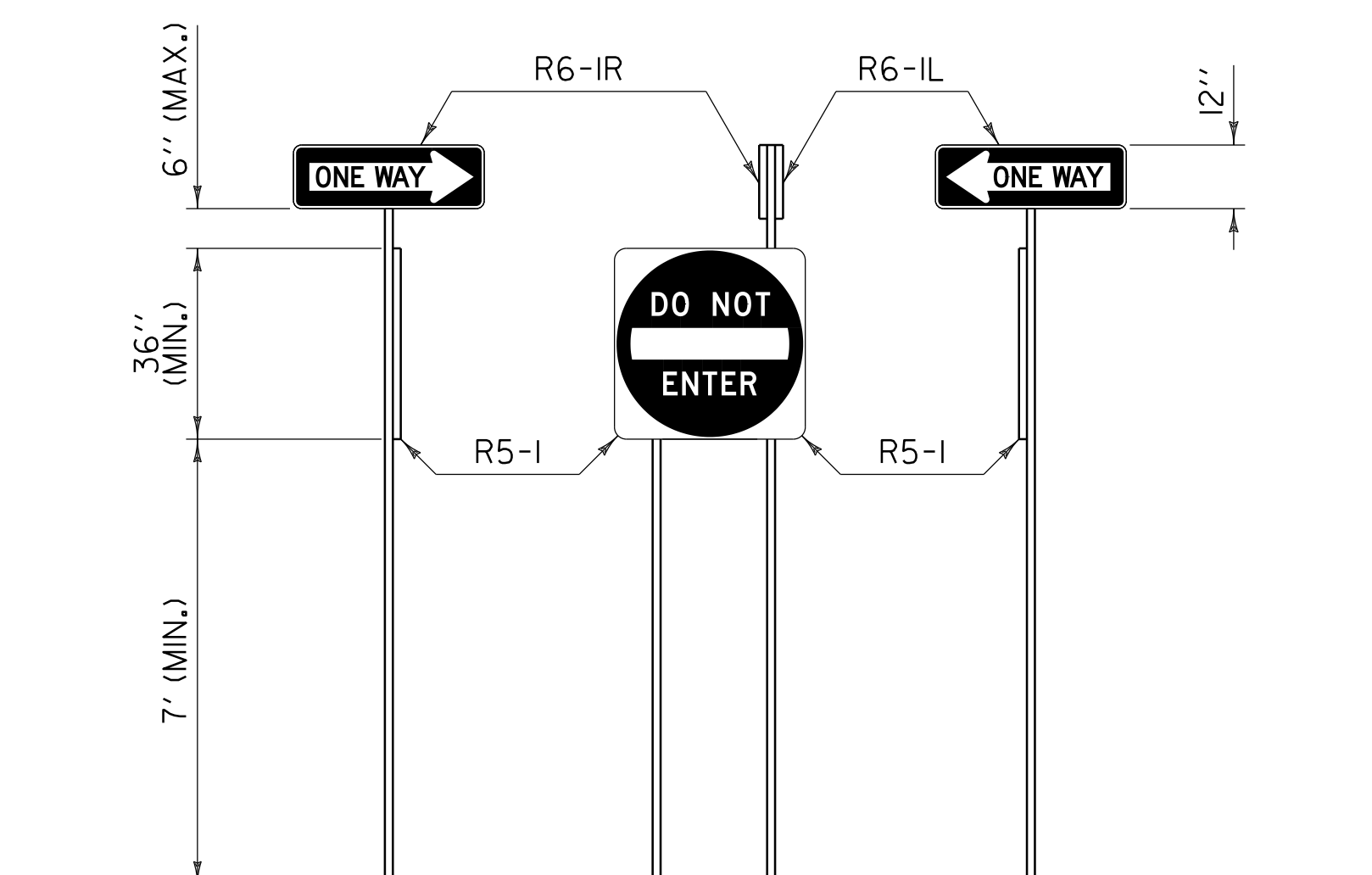
NOTES:

1. THE "STOP" (RI-1) SIGN SHOULD BE PLACED AS NEAR TO THE STOP BAR AS PRACTICAL. THE SIGN SHOULD BE PLACED TO MAXIMIZE VISIBILITY WITHIN THE RANGE OF OFFSETS SHOWN.
2. THE "YIELD" (RI-2) SIGN SHOULD BE PLACED AS NEAR TO THE YIELD MARKINGS AS PRACTICAL. THE SIGN SHOULD BE PLACED TO MAXIMIZE VISIBILITY WITHIN THE RANGE OF OFFSETS SHOWN.



NOTES:

- I. THE "STOP" (RI-I) SIGN SHOULD BE PLACED AS NEAR TO THE STOP BAR AS PRACTICAL. THE SIGN SHOULD BE PLACED TO MAXIMIZE VISIBILITY WITHIN THE RANGE OF OFFSETS SHOWN.



GENERAL NOTES:

1. WHEN INSTALLED, STREET NAME SIGNS SHOULD BE INSTALLED PERPENDICULAR TO APPROACHING MAINLINE TRAFFIC AND SHALL BE POSITIONED IN SUCH A WAY AS TO ENSURE THE BEST POSSIBLE VISIBILITY TO APPROACHING MAINLINE TRAFFIC FROM EACH DIRECTION. STREET NAME SIGNS MAY BE INSTALLED ABOVE SIDE ROAD STOP SIGN. IN CASES WHERE THE SIDE ROAD STOP SIGN POSITION WOULD NOT BE SUITABLE FOR A TOP-MOUNTED STREET NAME SIGN, OR OTHER SITE-SPECIFIC CONSTRAINTS, THE STREET NAME SIGN MAY BE INSTALLED INDEPENDENTLY ON EITHER CORNER OF THE INTERSECTION. THE STREET NAME SIGNS SHALL BE INSTALLED A MINIMUM OF SIX FEET FROM EDGE OF PAVEMENT ON THE MAINLINE ROUTE TO THE NEAREST EDGE OF SIGN.
2. STREET NAME SIGNS WITH A LENGTH EXCEEDING 42 INCHES SHALL BE INSTALLED ON TWO POSTS. NO MORE THAN TWO POSTS SHALL OCCUPY AN EIGHT FOOT TRAVEL PATH, UNLESS PROTECTED BY BARRIER.
3. THE "STOP" (RI-1) SIGN SHALL NOT BE MOUNTED LESS THAN FIVE FEET IN HEIGHT TO THE BOTTOM OF THE SIGN.

REV.	DATE	DESCRIPTION
0	OCT. 26, 2015	ORIGINAL APPROVAL
OTHER STANDARDS REQUIRED: NONE		
VTRANS AND FHWA APPROVAL ON FILE WITH CONTRACT ADMINISTRATION		

STANDARD SIGN PLACEMENT



STANDARD T-56

Lake Champlain Wayside Exhibit Manual



Lake Champlain Wayside Exhibit Manual

Second Edition

Produced by a partnership between the Lake Champlain Basin Program, the Lake Champlain Byways Partnership, and the Chittenden County Regional Planning Commission.

Copy: Jim Brangan and Maja Smith, Lake Champlain Basin Program
Design: Maja Smith, Lake Champlain Basin Program

Second Edition, April 2004

For More Information

Lake Champlain Basin Program
54 West Shore Road
Grand Isle, VT 05458
1.800.468.LCBP (NY & VT only) or 802.372.3213
www.lcbp.org

Download all completed exhibits and this manual on-line at:
www.lcbp.org/wayside/index.htm.

The Lake Champlain Basin Program provides assistance with planning, interpretive writing, and designing wayside exhibits. Contact us!



Acknowledgements

The Lake Champlain Basin Program acknowledges the following individuals for their assistance in developing the Lake Champlain wayside exhibit template in 2000:

John Dimura, New York State Canal Corporation
Deborah Doyle-Schechtman, Vermont Arts Council
Mark Eldridge, City of Burlington
Farar Elliott, Consultant
Larry Gobrecht, NYS Office of Parks, Recreation and Historic Preservation
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Debbie Morse, Lake Champlain Birding Trail
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Paul Vachon, The Vergennes Partnership
Bonnie Waninger, Northwest Regional Planning Commission
Virginia Westbrook, Champlain Valley Heritage Network

This second edition was produced under U.S. Environmental Protection Agency grant #LC991923-01, in coordination with the New England Interstate Water Pollution Control Commission. Financial assistance was also provided by the Chittenden County Regional Planning Commission through a Federal Highway Administration National Scenic Byways program grant (#SB-2003-VT-50330) administered by the Vermont Agency of Transportation.

The first edition was also supported by financial assistance from a National Park Service grant #1443CA-1600-95-006; the Chittenden County Metropolitan Planning Organization; and Lake Champlain Byways through the New York State Scenic Byways Program of the Federal Highway Administration and the Transportation Equity Act for the 21st Century of 1998.

Cover images clockwise from upper left: Detail of "The Battle of Lake Champlain," by J.O. Davidson, 1884, courtesy of the Battle of Plattsburgh Association; photograph by Jeff Nadler; photograph by Paul Boisvert; and "Village Tavern," by John Lewis Krimmel, 1813, oil on canvas, courtesy of the Toledo Museum of Art.

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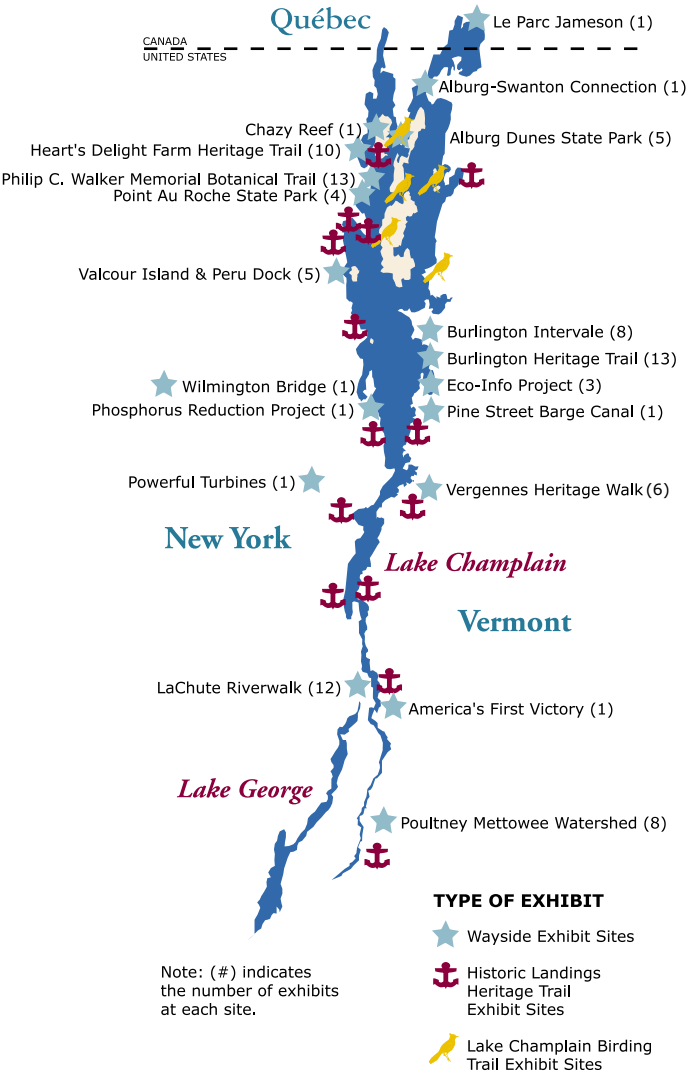
In 2000, a group of planners, tourism representatives, historians, and natural/cultural resource managers identified a need for unified standards and guidelines for interpretive signs in the Champlain region of Vermont, New York, and Québec. In response, the Lake Champlain Basin Program (LCBP) convened these stakeholders to develop and design an outdoor wayside exhibit template for use by organizations and municipalities in the Lake Champlain Basin.

Using this information, the LCBP published the Lake Champlain Wayside Exhibit Manual in 2001. The LCBP has provided in-kind design services grants to organizations using this template for projects that address priorities in the management plan *Opportunities of Action*. This successful program has generated more than 100 new wayside exhibits in the Lake Champlain Basin.

A unified approach to wayside interpretation helps local communities place their unique stories in a broader context. A readily recognizable interpretive sign encourages visitors to stop and learn about another piece of the Champlain Valley’s story. The result is a richer sense of history, nature, and culture, and a stronger regional identity among residents and visitors.

Encouraging linkages with the Richelieu Valley of Québec, the LCBP supports bilingual exhibits and provides support for translation services. Applicants for design services grants should contact the LCBP.

LCBP Wayside Exhibit Locations

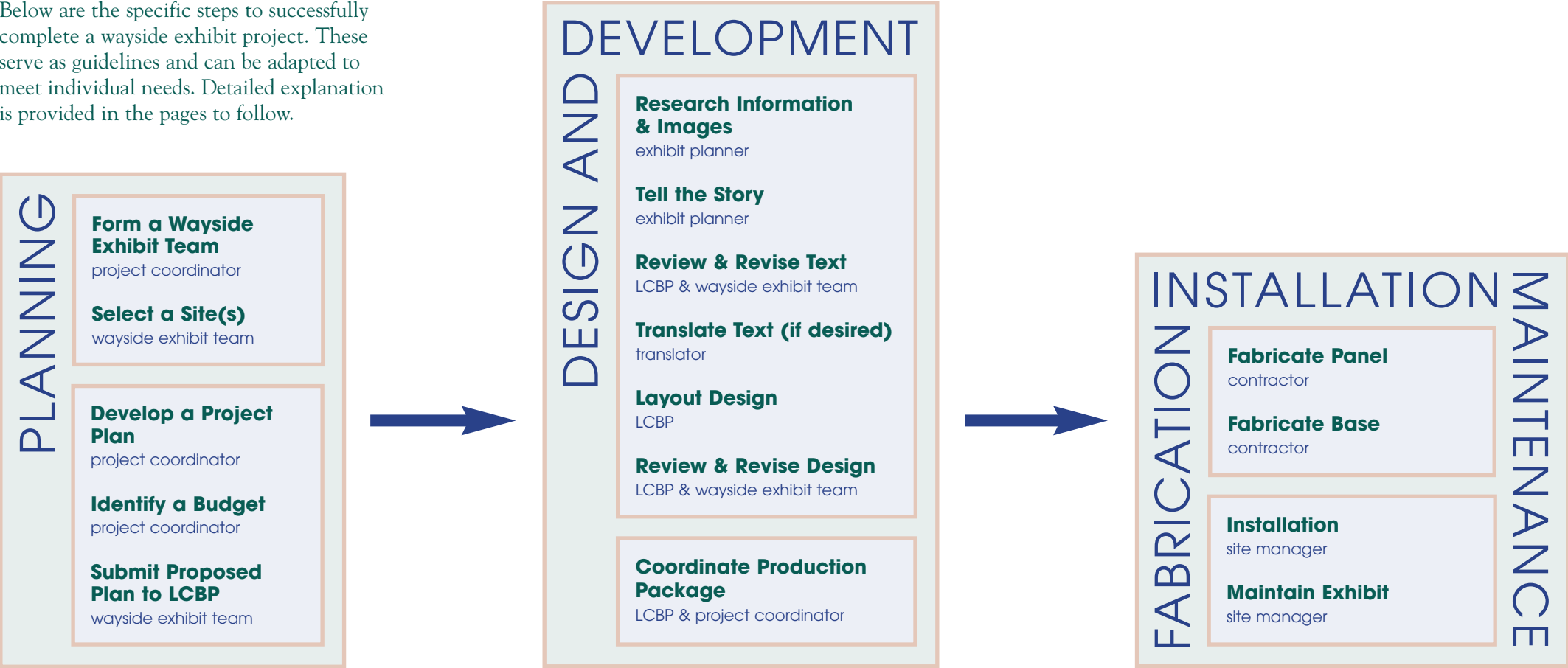


QUESTIONS TO CONSIDER

- To ensure a smooth and efficient process of developing effective exhibits, there are a few questions you should consider from the start:
- 1) What are your interpretive objectives for the specific site or sites? What is the essence of the message or story that you want to convey?
 - 2) Who will be working on the project and what is everyone’s specific role? How do you reach consensus to satisfy both local and international audiences?
 - 3) What visitors do you expect? Are there any special considerations that should be made for children, families, international visitors, and those with disabilities? To what extent should the exhibit address Americans with Disabilities Act accessibility guidelines?
 - 4) What other information exists about your story, including publications, audiovisual shows, films, and audio cassettes? How will your exhibit relate to other media?
 - 5) Do you need any sign permits?
 - 6) What are your budget constraints?
 - 7) What is your timetable? When do you want to break ground?

Project Steps: From Planning to Installation

Below are the specific steps to successfully complete a wayside exhibit project. These serve as guidelines and can be adapted to meet individual needs. Detailed explanation is provided in the pages to follow.



Project steps adapted from *Wayside Exhibit Guidelines: The ABCs of Planning, Design, and Fabrication*, United States Department of Interior, National Park Service, National Center for Recreation and Conservation and the Harpers Ferry Center.

Project Planning

"Interpretation is an information service, a guiding service, an educational service... an inspirational service. Interpretation aims at giving people new understanding, new insights, new enthusiasm, and new interests."

-Yorke Edwards

4

Introduction

Wayside exhibits are excellent tools for informing visitors. They can interpret a specific location and relate individual sites to an overall theme or story. Their message reaches a large number of people. They are relatively inexpensive to maintain or replace. Wayside exhibits are initially more expensive to produce than brochures, but do not require costly reproductions.

However, wayside exhibits are only effective if developed, designed, and located correctly. Unfortunately too many wayside exhibits present long, complicated messages that do not get read. Others are located in areas that have little relation to their topic. Some are poorly designed, making the message difficult to understand. The goal of this manual is to provide a basic framework for planning and creating effective and successful interpretive wayside exhibits.

Project Organization

A strong organizational structure is an essential part of developing quality interpretive signs. Ideal wayside exhibit projects are structured as follows.

Wayside Exhibit Team: A Wayside Exhibit Team is comprised of representatives from the project's sponsors, stakeholders, property managers, and interested individuals. The team provides advice and personal insight to the Project Coordinator.

Project Coordinator: The success of the project is the responsibility of the Project Coordinator. He works with the Wayside Exhibit Team to determine interpretive themes, exhibit locations, and site topics. The coordinator edits and approves interpretive text and graphics. Together with the LCBP, he contacts fabricators, negotiates contracts, and facilitates the completion of the final products. The Project Coordinator might also serve as the Exhibit Planner.

Exhibit Planner(s): Ideally, each interpretive wayside exhibit has a champion, often a volunteer. Exhibit Planners are responsible for the historical research, text, and graphics selection.

Exhibit Designer: The Exhibit Designer is responsible for the design and layout of the exhibit panel. The LCBP will provide design services, as resources permit, to organizations in the Champlain region for projects that meet eligibility criteria, including the goals of the LCBP's management plan, *Opportunities for Action*. Once a project proposal has been accepted, graphic designers on the LCBP's staff will work with the text and graphics provided by the Wayside Exhibit Team to create a presentation that is harmonious and pleasing to the eye. (Note: The template may be used by other designers for interpretive work.)

Project Budget

The total fabrication cost for a standard 24"x36" horizontal wayside exhibit is approximately \$900. In addition

to the standard 24"x36" panel, other dimensions are available, as shown on page 11. Estimated costs for various sized exhibits are shown on page 12. There are other costs to consider when planning a budget. For each exhibit, plan on investing approximately \$300 for coordination and \$300 for research and development. Volunteers can reduce a project's coordination and development costs. Remember, costs will decrease as the number of exhibits increase.

Interpretation: Telling the Story

Principles of Successful Interpretation:

1) Interpretation is provocation, not just information. Illustrate with analogies, quotes, metaphors, and examples. Use text that encourages visitor interaction:

- "Look for the..."
- "Can you hear the...?"
- "Imagine the..."
- "Touch the..."
- "See if you can find the..."
- "Smell the..."

2) The best interpretation is succinct. Use short sentences. Concentrate on one subject. Don't worry about including all of the details. Visitors usually ignore long, complex messages. Avoid creating a "textbook on a stick."

3) Individual exhibits should complement each other by presenting a unified theme. This helps advance a project's organizational structure and provides visitors with a better understanding of the site's significance.

Project Planning

- 4) Help visitors relate the exhibit's topic to their own lives. Use familiar terms and personal language. Use everyday objects and events to illustrate the past, such as: “In 1889, horses were as common as automobiles are today.”
- 5) Use photos, maps, and images to illustrate your point. Use stimulating and revealing graphics—avoid duplicating what can be seen.
- 6) Reveal message conclusions through unique or unusual viewpoints.
- 7) Accuracy is essential. Make sure your facts are correct—mistakes on interpretive exhibits live for a very long time!
- 8) Have fun. Be creative. Learn a little.

Site Planning: Location, Location, Location

The Wayside Exhibit Team should brainstorm exhibit locations and topics at a project's beginning. The group should list as many topics and locations as possible. Listing potential exhibits helps determine the project's overall theme and allows for more flexibility in siting exhibits.

The Project Coordinator should visit proposed exhibit sites with the locale's property manager. This on-the-ground visit is essential. A property manager's working knowledge of the landscape can help: eliminate

weak sites; avoid safety hazards and vandalism; locate exhibits in accessible locations; and choose sites with vistas of the exhibit's topic.

Copy, Photos, and Design

There is a wealth of information out there. Local historians and experts, university libraries, and town, regional, and state historical societies are excellent sources of folklore, facts, and photographs.

Effective wayside exhibits contain less than 300 words and feature no more than four graphic images. The Exhibit Planner should provide the Project Coordinator and the LCBP with exhibit copy along with a selection of photographs or graphics for scanning. Once copy is approved and graphics selected, the LCBP will design a layout for review before digital files are sent to a panel fabricator. Original graphics—photographs, artwork, and maps—reproduce much better than duplicates.

VISITORS REMEMBER

- 10% of what they hear;
- 30% of what they read;
- 50% of what they see;
- 90% of what they do—if an exhibit encourages interaction and stimulates thought, it fulfills its purpose by reaching almost all site visitors.

SAMPLE WAYSIDE EXHIBIT COPY

Trail Name

Burlington Heritage Trail

Title

Steamboats and Shortcuts

Sub Heading

King Street Dock

Main Text

Imagine the scene here in 1825. The dock is crowded with saddle horses, ox carts, fancy horse buggies, pigs, goats, cows, chickens, piles of freight, and people. There are farmers, soldiers, merchants, and sailors. It's noisy. Workmen are yelling, whistles are blowing, and horses are neighing. The smell of barnyard animals, wood smoke from the ferry's smokestack, and food cooking fills the air. Even though the scene is very different today, the Lake Champlain Transportation Company's mission is the same—to safely deliver passengers across Lake Champlain.

Photo Caption

The Roosevelt—the last wooden-hulled ferry on Lake Champlain—served for 36 years. The president of the Lake Champlain Transportation Company himself sank the boat by chopping holes in its hull when it had outlived its usefulness in 1959. Today, the Roosevelt rests at the bottom of the broad lake before you.

"Through interpretation, understanding; through understanding, appreciation; through appreciation, protection."

– Freeman Tilden

Design and Development

From Sketches to Comprehensive Layouts

Once copy is written and images and graphics collected, the LCBP carefully reviews materials for content in preparation for the design phase. A designer is visually oriented and examines copy and images from that perspective. With physical site considerations in mind, the designer assists in selecting photographs and illustrations that best tell the story. Because graphic images are the most important element of an exhibit—a picture is worth a thousand words—clarity and quality of image are paramount. Originals are preferred whenever possible.

The designer organizes material in layers of importance based on the copy's underlying message. One image is chosen to be the primary image, around which all other elements are designed. As a first step, the designer sketches alternative layouts for consideration. Once a conceptual direction is chosen, the designer precisely lays out the panel. Headings, main text blocks, captions, and graphics are carefully sized and positioned on a grid system.

A collage of various images related to Lake Champlain history and nature. The images include:

- A painting of blueberries by Dr. John Tanner.
- A photograph of the Ethan Allen Homestead.
- A photograph of Fort Ticonderoga.
- A map of the Alburg Dunes State Park Critical Resources.
- A photograph of a duck by Dave Menke.
- A photograph of a boat on Lake Champlain by Charles Feil.
- A photograph of a lighthouse by UVM Special Collections.
- A photograph of a person at a desk by W.H. Miner Institute.
- A photograph of a house by Ticonderoga Historical Society/Hancock House.
- A photograph of a lake scene by Viewsfromabove.com.
- A photograph of a landscape by The Nature Conservancy/Sherry Crawford.

Lake Champlain Wayside Exhibit Manual

Design and Development

From Sketches to Comprehensive Layouts

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A large collage of various images related to Lake Champlain history and nature. The collage includes:

- A painting of blueberries by Dr. John Tanner.
- A photograph of the Ethan Allen Homestead.
- A historical illustration of Fort Ticonderoga.
- A black and white portrait of a man labeled W.H. Miner Institute.
- A map titled "Alburg Dunes State Park Critical Resources" showing trails and landmarks.
- A photograph of a duck by Dave Menke.
- An aerial view of a lake area by Charles Feil.
- A landscape photo of a field by Sherry Crawford.
- A sketch of a person sitting at a desk.
- A drawing of a building facade.

Lake Champlain Wayside Exhibit Manual

Design and Development

From Sketches to Comprehensive Layouts

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The collage features several distinct items:

- A painting of blueberries by Dr. John Tanner.
- A photograph of the Ethan Allen Homestead.
- A photograph of Fort Ticonderoga.
- A map of the Alburg Dunes State Park Critical Resources.
- A photograph of a duck by Dave Menke.
- A photograph of a boat on Lake Champlain by Charles Fell.
- A photograph of a lighthouse by UVM Special Collections.
- A photograph of a house by The Nature Conservancy, Sherry Crawford.
- A photograph of a person by W.H. Miner Institute.
- A photograph of a building by Ticonderoga Historical Society, Hancock House.
- A photograph of a landscape by UVM Special Collections.

6

Lake Champlain Wayside Exhibit Manual

Design and Development

From Sketches to Comprehensive Layouts

Once copy is written and images and graphics collected, the LCBP carefully reviews materials for content in preparation for the design phase. A designer is visually oriented and examines copy and images from that perspective. With physical site considerations in mind, the designer assists in selecting photographs and illustrations that best tell the story. Because graphic images are the most important element of an exhibit—a picture is worth a thousand words—clarity and quality of image are paramount. Originals are preferred whenever possible.

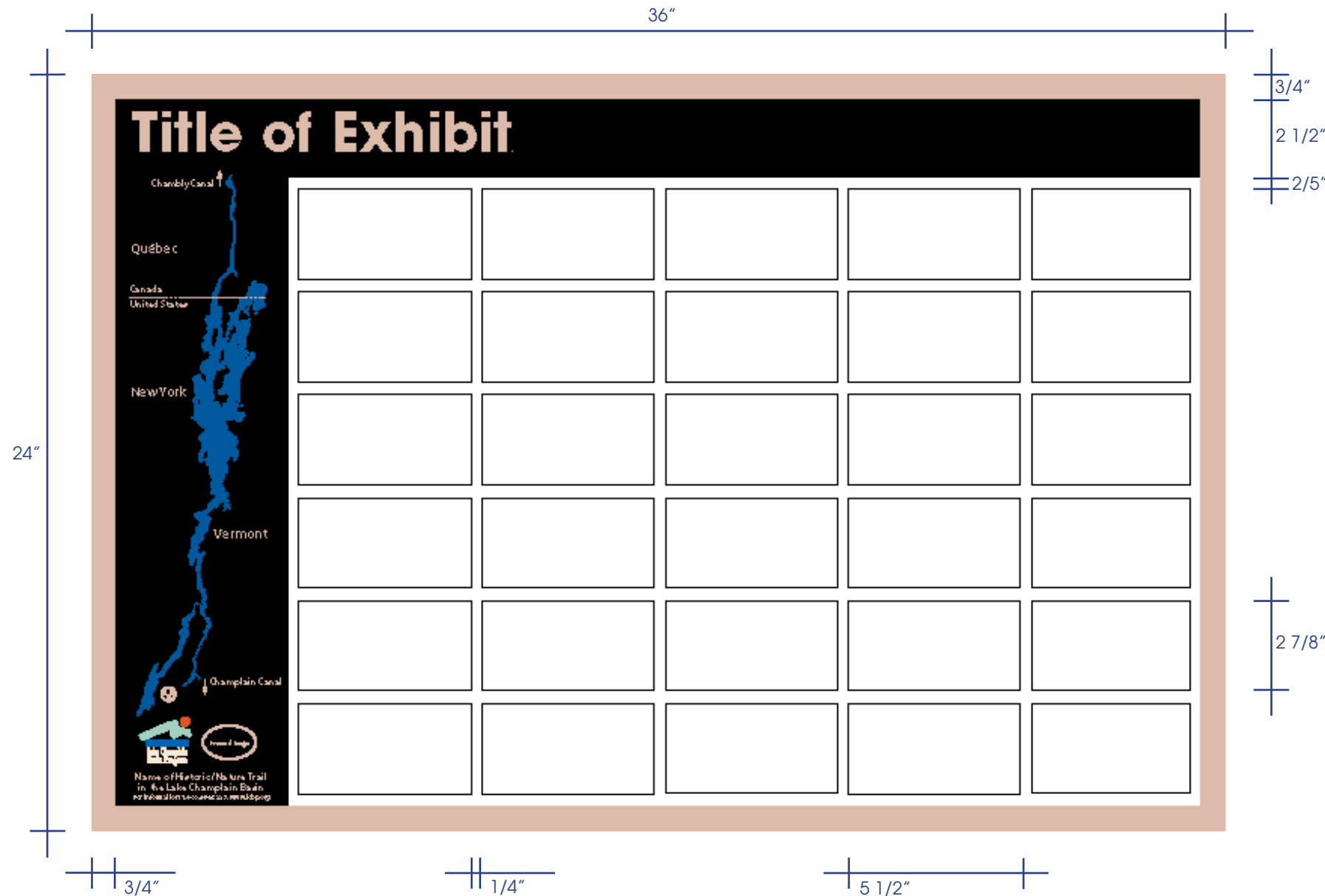
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A large collage of various images related to Lake Champlain history and nature. The collage includes:

- A painting of blueberries by Dr. John Tanner.
- A photograph of the Ethan Allen Homestead.
- A historical map of Fort Ticonderoga.
- A black and white portrait of a man, likely from the W.H. Miner Institute collection.
- A map of the Alburg Dunes State Park Critical Resources.
- A photograph of a duck by Dave Menke.
- A photograph of a boat on the water by Charles Fell.
- A photograph of a lighthouse by UVM Special Collections.
- A photograph of a landscape by The Nature Conservancy, Sherry Crawford.

Lake Champlain Wayside Exhibit Manual

Design and Development



The Grid System

The LCBP wayside exhibit template is similar to the National Park Service and the NYS Canal Corporation wayside exhibit grid systems. The grid organizes text and graphics in an orderly fashion, making it easy for visitors to understand the information presented. It also lays the foundation for a consistent and unified look, linking wayside exhibits at different locations around the lake. The title bar, lake column, colors, and typography are standard elements found on each exhibit, creating a recognizable identity throughout the region. Although all exhibits adhere to these standards, each is carefully designed for individual expression according to site considerations, message, and graphics composition.

The standard LCBP template includes two variations based on this grid. These are shown on the next two pages.

Design and Development

Typography

Typography has been chosen to achieve an accessible, legible, and inviting presentation. Choice of type size depends on reading distance, height, and importance of information. Typefaces are mixed in a hierarchical fashion to convey levels of information and emphasis.

Logos and Identification

Wayside exhibits using the LCBP template display the LCBP logo in the bottom left-hand corner. There is also space for one or two additional logos of the Wayside Exhibit Team's choice.

The trail or project name and brief contact information, including telephone number and web site address, appear below the logos.

Option A: Full Spread

This option utilizes one primary image, over which type and secondary images are placed.

Title
Avant Garde
Bold 122 point

Canal Identifier
Myriad Bold
22 point

US/Canadian Border
Myriad Bold
22 point

State/Province Identifier
Myriad Bold
32 point

You Are Here
Myriad Bold
18 point

Sponsor/Name
Myriad Bold
28 point

For More Info
Myriad Bold
18 point

Main Text
Goudy
29 point

Caption
Goudy Bold
Italic 20 point

Subheading
Myriad Bold
26 point

Feature Labels
Goudy Bold
Italic 24 point

500 Million Years at the Beach

See the Adirondack Mountains across the lake? Try to find the peaks shown in this watercolor. These ancient mountains—made up of rocks over 1 billion years old—grew to their present height 120 million years ago. Today, occasional earthquakes remind us that the Adirondack Mountains are still active!

You can also locate several islands in Lake Champlain. Rock Dunder, located between Shelburne Point and Juniper Island, is sacred to Native Americans. According to Abenaki legend, the deity Ojiohzo turned himself into that rock after he created the lake, so he could admire his creation forever. The islands are made of shale, which was originally deposited as mud in a small sea between the Adirondacks and the newly forming Green Mountains more than 400 million years ago.

The World Turned Upside Down

500 million years ago, North Beach was located along the western edge of an ancient ocean. Over 400 million years ago—even before tectonic plates came together to form the supercontinent Pangaea and the once-lofty Green Mountains—deep layers of bedrock were thrust over the younger shales that make up Lake Champlain's islands. The world-famous Champlain Thrust Fault is exposed along the beach at Lone Rock Point to the north. On the other side of the point, the light-colored, OLDER dolostone sits on top of the dark-colored, YOUNGER shale below it. (Photograph courtesy of Jack Drake, University of Vermont Geology Department.)

Take a Dip

Imagine yourself here 15,000 years ago. You would need diving equipment! Glaciers from the Ice Age were melting, and a huge body of fresh water called Lake Vermont lay between the Green Mountains and the Adirondacks. The lake was 650 feet deep and covered all of Burlington. (Photograph courtesy of the University of Vermont Special Collections.)

A Whale of a Tale

How did this beluga whale skeleton get into the Champlain Valley? It turns out that the water here turned salty 13,300 years ago. After the last Ice Age, heavy glaciers retreated north and depressed the land below sea level. Ocean water flooded the valley to make the Champlain Sea. For the next 2,800 years, seals, porpoises, and whales frolicked in the surf until the land rebounded and blocked the saltwater connection to the St. Lawrence Seaway. (Drawing courtesy of Ian Hirdelon, Perkins Geology Museum, University of Vermont.)

Painting by Janet Kilburn

Feature Labels: Boquet Mountain, Mount Discovery, Nippletop, Giant Mountain, Mount Haystack, Rattlesnake Mountain, Lynch Mountain, Juniper Island, Four Brothers Islands.

Map Labels: Champlain Canal, Québec, Canada, United States, New York, Vermont, Champlain Canal, Burlington Heritage Trail.

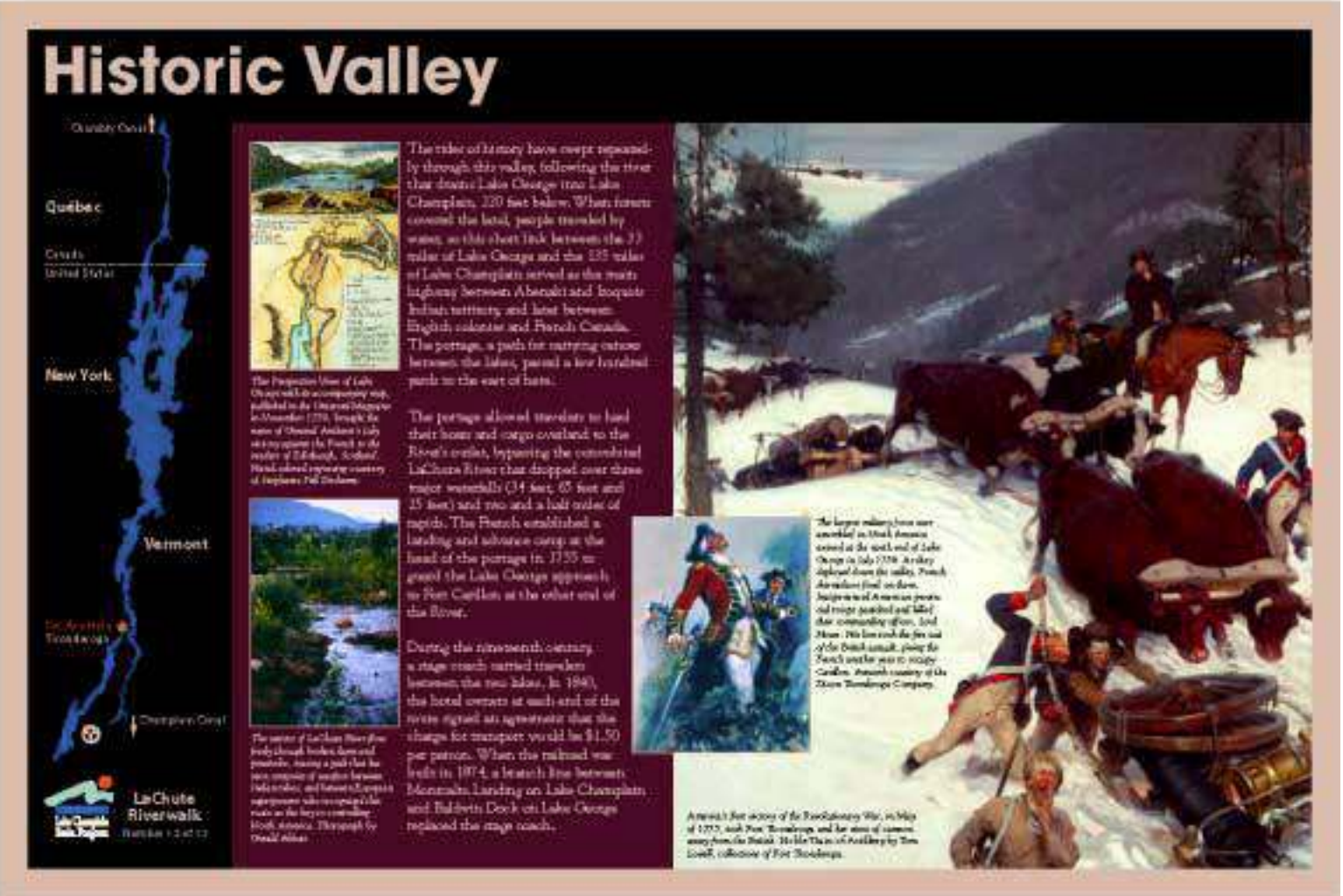
Contact Info: For information: 1-800-468-5227, www.lcbp.org. Special thanks to the Perkins Geology Museum, University of Vermont.

The Burlington Heritage Trail, Burlington, VT.

Design and Development

Option B: The Block

This option utilizes a primary image with type and secondary images generally placed outside the primary image in a colored block.



The LaChute Riverwalk, Town of Ticonderoga, NY.

Color

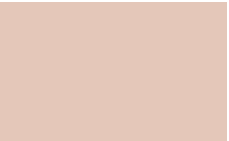
The template includes three standard colors: blue, black, and beige.

Blue is used exclusively for the lake graphic; beige is used for type, image frames, and the aluminum frame around the panel; and black is used for text and as background color on the title bar and the lake column.

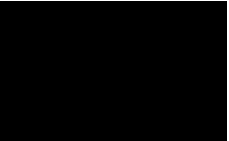
For the background color of the block template, there are four colors from which to choose, as shown below.



Pantone 301 C



Pantone 4685 C



Black



Pantone 222 C



Pantone 4685 C



Pantone 302 C



Pantone 3165 C

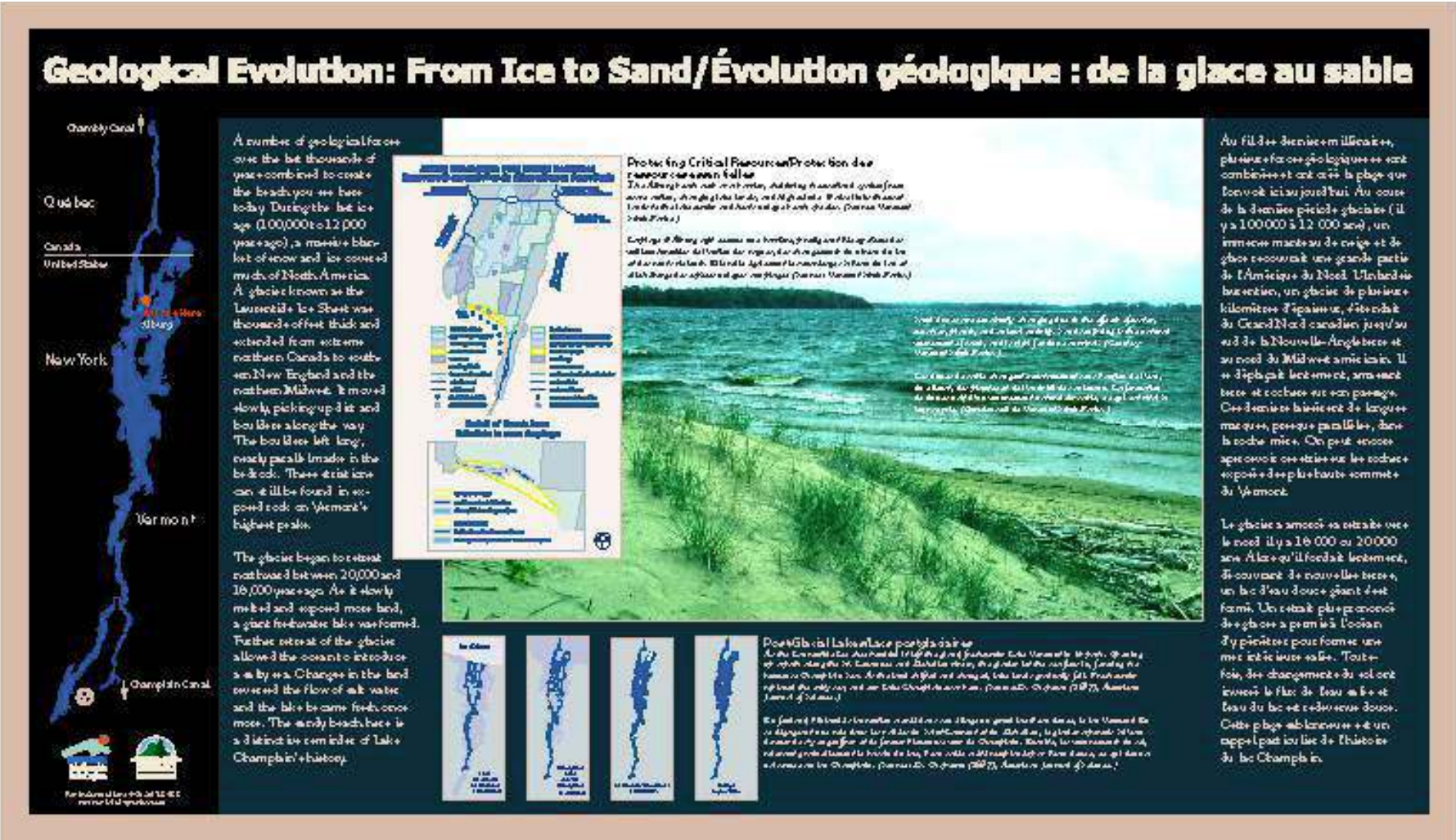
Note: Swatches may vary slightly from actual pantone colors. Please refer to a coated *Pantone Color Formula Guide*, an accurate method for the selection, specification, communication, reproduction, matching and control of Pantone Matching System colors, the international printing, publishing and packaging color language.

Design and Development

Bilingual Exhibits

The LCBP recognizes our bilingual region and opportunities for cross-border promotion, and encourages the use of bilingual exhibits. This manual offers a template specifically designed to accommodate translated text in both English and French.

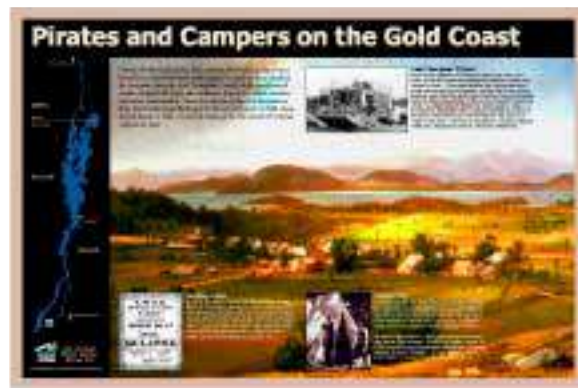
Bilingual exhibits are approximately 16 percent wider than a standard exhibit. The LCBP can make arrangements for text translations in a project's design and development phase.



Alburg Dunes State Park, Alburg, VT.

Design and Development

A. 24" x 36"



Low-Profile Panel

B. 24" x 42"



Bilingual Low-Profile Panel

C. 18" x 24"



Low-Profile Panel

D. 12" x 17"



Site Marker

E. 36" x 48"



Upright Panel

Panel Sizes and Orientation

The LCBP wayside exhibit design comes in a variety of sizes depending on the message being conveyed. Low-profile horizontal panels (A, B, C, & D) often tell a story or interpret a specific site or feature. Site markers (D) are designed to be part of a series of displays along a thematic trail, such as a nature walk. Upright panels (E) provide practical travel information, safety tips, and illustrations of special destinations.

Panel A is the most commonly used size for interpretive panels. Panel B is specifically designed for a bilingual presentation. Panels A, C, D, & E are designed for one language, however panel E could be adapted to be bilingual. A range of estimated prices is included on page 12.

Panel Fabrication

Working with a contractor, wayside exhibits are fabricated through full-color ink-jet digital imaging onto a high-pressure laminate material made for exterior use. Specially developed printing papers are digitally imaged, then impregnated with melamine resins and a UV resistant over-laminate, and finally pressed with extreme heat and pressure. The LCBP generally orders exhibit panels at 1/8 inch thickness for framed exhibits or 1/2 inch if a frame is not preferred.

Considering cost, new advancements in digital technology, quality of product, and ease of production, the digital print is the clear choice for most. In vandalism tests, high pressured laminates scored well for scratch and cigarette resistance and spray paint and magic marker removal. Most carry a ten-year guarantee.

The LCBP will assist organizations seeking to select a fabricator that best suits their needs by sharing our current information about product lines and costs. A range of estimated costs from various companies is noted in the adjacent table. The LCBP is willing to work with a panel fabricator of an organization’s choice, provided the product meets certain quality standards.

The LCBP recommends obtaining exhibit lab tests prior to final product development to ensure color match and layout accuracy.

ESTIMATED PANEL COSTS

Panel Size	1/8 inch	1/2 inch
12x17 inches	\$70 - \$160	\$90 - \$180
18x24	\$130 - \$250	\$180 - \$290
24x36	\$250 - \$400	\$340 - \$470
24x42	\$310 - \$450	\$420 - \$530
36x48	\$490 - \$660	\$670 - \$810

Prices may vary. Costs do not include packaging, shipping, and a lab sample. Plan on adding \$50-\$100 per exhibit for these additional services, depending on size of order. Lead-time: 30-45 days.

Base and Frame Fabrication

The base and frame product the LCBP uses is a proven durable cast aluminum, widely used by the National Park Service. It generally consists of: 1) legs and a backing plate; or 2) legs with a backing plate that frames the panel with a 3/4 inch lip.

Using the frame option, the exhibit panel slides directly into the frame and its backing plate, making it easy to assemble and replace. This frame is attached to one or two legs, depending on the size of the exhibit. The legs are set in concrete.

Panels without frames are directly screwed to a backing plate which is then attached to the legs. The choice is primarily an aesthetic preference, however the frame does make the exhibit a little more durable and difficult to vandalize. While the difference in initial cost is not significant, a 1/2 inch panel will cost more to replace if choosing the option without a frame. Another choice is a railing mount, which requires no legs. In this case the frame and/or a backing plate is attached directly to a railing.

ESTIMATED BASE COSTS

Panel	Base w/o frame	Base w/ frame
12x17 inches	\$150 - \$385	\$190 - \$470
24x18	\$170 - \$385	\$350 - \$470
24x36	\$310 - \$385	\$450 - \$470
24x42	\$330 - \$530	\$460 - \$620
36x48 Upright	N/A	\$490 - \$730
36x48 Double Upright	N/A	\$910 - \$1,450
36x48 Triangular Upright	N/A	\$1,190 - \$2,170
36x48 Triple inline Upright	N/A	\$1,240 - \$2,170

Prices may vary. Shipping may be included, depending on the company. Lead time: 40-45 days. Note: 1/8 inch panels can be used with bases using frames, while bases not using frames require a 1/2 inch panel.

Installation and Maintenance

Installation

The site manager is generally responsible for installing wayside exhibits. However, a wayside exhibit team may need to rely on volunteers to accomplish this task.

The LCBP does not install exhibits, although we will guide an organization with technical assistance. Exact locations and positions must be well planned. The project coordinator should visit the site with the site manager to determine the best location and orientation.

Integrate exhibits into the landscape as much as possible. In remote areas, install with as little disturbance to the surface as possible. In not-so-remote areas, wayside exhibits can draw many people. In such cases, locate exhibits on level, hard-surfaced pads to minimize the impact.

Base systems are relatively easy to install. Specific instructions can be obtained from the LCBP or the manufacturer.



Double Inline Upright



**Low Profile
Inground Unit**



Wall Mount Frame



**Low Profile
Surface Mount**

Maintenance

After all your hard work, please do not neglect your wayside exhibit. A little maintenance can go a long way to improve the appearance and increase the exhibit's life. Periodic maintenance using the following cleaning tips greatly improves how visitors will view and remember your message and presentation.

Cleaning Tips

- Use a popsicle stick and water (a hose if possible), to clean the weep, or drainage holes, at the bottom of the panel frame so that debris does not collect.
- For simple cleaning, mild soap and water is best. Rinse with clean water after washing. Avoid using abrasive cleaners or acids.
- Graffiti (paint, crayon, felt tip markers) can be removed using an organic solvent, such as *Simple Green*, or similar non-abrasive citrus-based cleaners.



Triangular Upright

- Very stubborn graffiti may require something stronger, such as mineral spirits. Do not use lacquer thinner or acetone, as they can damage the surface of your panel. Always rinse with clean water.

- Minor blemishes, nicks, marks, or burnishes and very light scratches can be concealed using a polymer based car wax.

- Persistent stains can be removed with a two minute exposure to household bleach. Always rinse with clean water after this procedure.

Getting Started

Contact the LCBP for help in starting the process of developing your wayside exhibit. We are happy to discuss your ideas and to answer any questions that you may have. We look forward to hearing from you soon!



State of Vermont
Division for Historic Preservation
Deane C. Davis Building, 6th Floor
One National Life Drive, Montpelier, VT 05620-0501
www.accd.vermont.gov/historic-preservation

[phone] 802-828-3540

*Agency of Commerce and
Community Development*

Vermont Roadside Historic Site Markers

The Vermont Historic Site Marker program commemorates facts, persons, events, and places prominently identified with the history of the nation, state, or region. The text for each proposed marker shall be reviewed and edited by the manager of the marker program and the staff of the Vermont Division for Historic Preservation (VDHP) and shall be approved by the Advisory Council on Historic Preservation (ACHP).

For markers on a state right-of-way: the Agency of Transportation (AOT) is responsible for approving the site location in consultation with VDHP and ACHP. For markers on town/city right-of-way: town or city managers in coordination with town garages shall be consulted in determining the location of markers. For markers on private property: VDHP shall work with owners, who must sign a Memorandum of Understanding prior to the installation.

Criteria for Evaluation of Roadside Historic Site Markers

(Approved by the Advisory Council for Historic Preservation, October 2014)

1. The site is associated with an event(s) that has made a significant contribution to the broad patterns of history:
 - Site of an event of prehistoric or historic significance
 - Site marking unique, exemplary, or important surviving physical evidence of Vermont's past
2. The site is associated with the lives of persons significant in our past:
 - Birthplace of a significant individual
 - Burial place of a significant individual
 - Building or site associated with significant individual or group or business
3. The site embodies the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values:
 - Exemplary example of a specific period of construction or architectural expression
 - Rare/unique method of construction
 - Representative work of master builder or architect/firm
4. During the selection process, the ACHP will also consider the following factors:
 - Reputation of the individual or group to be recognized
 - Interest of the public in historic context
 - Accessibility to the marker (ability to be viewed by larger public)



- Enhancement of the setting and preservation of the site
- Applicants ability to pay costs for installation and perpetual maintenance
- Determination of local, state, and/or national significance

Please note the following rules and exceptions:

1. No marker shall be erected to commemorate a living person.
2. In order for an historic event to be eligible for commemoration with a marker, the event must have occurred at least fifty years ago.
3. A place or person must have attained its significance at least fifty years ago, although there are exceptions if the event, place, or person is of extraordinary historical significance.
4. Markers will be not be placed to commemorate a building or structure that is no longer extant, unless one of the above criteria is met.





State of Vermont
Division for Historic Preservation
Deane C. Davis Building, 6th Floor
One National Life Drive, Montpelier, VT 05620-0501
www.accd.vermont.gov/historic-preservation

[phone] 802-828-3540

*Agency of Commerce and
Community Development*

Vermont Roadside Historic Site Markers

The Vermont Historic Site Marker program commemorates facts, persons, events, and places prominently identified with the history of the nation, state, or region. The text for each proposed marker shall be reviewed and edited by the manager of the marker program and the staff of the Vermont Division for Historic Preservation (VDHP) and shall be approved by the Vermont Advisory Council on Historic Preservation (ACHP).

For markers on a state right-of-way: Agency of Transportation (VTrans) is responsible for approving the site location in consultation with VDHP and ACHP. For markers on town/city right-of-way: town or city managers in coordination with town garages shall be consulted in determining the location of markers. For markers on private property: VDHP shall work with owners, who must sign a Memorandum of Understanding prior to the installation.

Procedure for Developing and Submitting a Roadside Marker and the Approval Process

1. Research and Write the Roadside Marker Text. Research the topic by consulting multiple primary and secondary sources. Write a roughly 100-word text, following the “Highway Marker Writing Style” (see below). It is often helpful to seek assistance from local and regional historical associations and governmental entities in researching and writing the proposed text. Changes will likely be made by VDHP staff to the proposed text to bring it in line with program criteria and writing style; edited text will be forwarded for applicant’s approval.

Property owners should be consulted prior to submittal of an application for clarity of topic, verification of facts, and concurrence.

2. Suggest a Suitable Marker Location. The marker preferably should be placed on public land or a highway right-of-way. If it is on private land, then the VDHP must receive the owner’s consent. VDHP and VTrans staff will evaluate the proposed location based on its historic association with the marker subject and safety. Ultimately, VTrans staff will have the final determination in approving and selecting the location based primarily on traffic safety. Be sure in your application to specify the highway route number and the physical site (e.g., U.S. Route 7, 0.2 miles south of Interstate 89) and indicate the location on a street or highway map accompanying the application. Photographs of the location must be provided.

3. Submit Your Application Packet to VDHP for Review. VDHP staff and advisors to the marker program will review all applications. After review, VDHP will decide whether the topic meets the marker program criteria. If the topic is considered appropriate for a state marker, the text will be formally presented to the ACHP for approval at one of its regularly scheduled meetings. The ACHP has final authority for the topics and content of all state markers.

All applications must be submitted 60 days before to the ACHP meeting.



4. Work with VDHP to Revise or Refine the Marker Text. Before submitting a text for approval to the ACHP, a review committee composed of members of the ACHP, VDHP, and selected historians will review the text. Any major questions about the text that arise will be discussed with the applicant, including further documentation, if necessary, to support the marker text. If changes to the text are warranted, VDHP staff will work closely with the applicant, or the applicant's author, to produce a mutually agreed upon text. Because VDHP and the ACHP bear the ultimate responsibility for what appears on a marker, they reserve the right to edit a text for accuracy, clarity, brevity, and thoroughness.

Please be aware that a marker's text must be limited to 765 characters (letters and spaces).

5. Final Decision of the ACHP. VDHP will provide a applicant advance notification of when the marker will be presented to the ACHP at the appropriate meeting. The meeting is open to the public and applicants may attend. VDHP will notify the applicant of the ACHP's findings and any related comments. Once a text is approved, VDHP will send the applicant a copy of the final board-approved text.

6. Meet with the Agency of Transportation. After the marker is approved by the ACHP, VDHP will notify VTrans to review the proposed site. **VTrans is responsible for approving the site if located on a state right-of-way**, and may select another location if the applicant's choice is unsuitable for traffic safety reasons.

7. Manufacturing and placement of the Marker. **VDHP will contract and pay** for the manufacture of the cast aluminum marker and have it delivered to an approved location. VDHP will notify the foundry that casts the marker and provide it with the final board-approved text.

- Casting and delivery take approximately 90 days once the foundry has been notified.
- Installation shall be coordinated with VDHP and depends on the location (i.e.: state right-of-way, town right-of-way, or private property).

8. Schedule Unveiling Ceremony. The process for ordering and manufacturing markers is determined by several factors including the workload of VDHP and VTrans, the schedule and agendas of the ACHP, and manufacturing and shipping delays arising at the foundry; thus, VDHP cannot be held responsible for meeting local deadlines for any planned dedication event. For that reason, if a sponsoring organization or individual desires to hold an unveiling ceremony, VDHP should be notified and consulted well in advance about the schedule to coordinate with the foundry and VTrans for the marker's timely arrival and installation by the community or applicant prior to a ceremony. The applicant should only fix scheduling of a ceremony after VDHP and the foundry can confirm a realistic shipping date for a marker.

The marker's applicant/sponsor will arrange publicity for unveiling ceremony in cooperation with VDHP.

Roadside Historic Site Marker Writing Style

To ensure stylistic consistency among state markers, VDHP staff will revise and edit draft texts. The goal is to provide as much accurate and interesting information as possible in a limited space. Applicants can help by following these suggestions when writing their drafts.

- Aim for 90 to 100 words; it is better to be a little long than short for editing



- Spell out numbers less than 10, otherwise use Arabic numerals (one, two, etc., but 10, 237, 10,000, etc.).
- Do not use honorary titles such as Mr. and Mrs., but do use and abbreviate occupational titles and ranks (the Rev., Col., Maj. Gen., Dr., etc.).
- Do not use commas before or after Jr., Sr., II, etc. (e.g. Joseph Smith Jr. founded the Latter Day Saint movement).
- Write nicknames as follows: Wilson “Snowflake” Bentley.
- On first use, give a person's full name as he or she used it or as it is best known (e.g. Frederick Billings, Maria von Trapp, Chester A. Arthur), but on subsequent use only the last name.

Markers are intended to present historically accurate information as objectively as possible. Therefore, markers will not editorialize or assign value judgment to events or people. Unless there is sufficient documentary evidence to establish authenticity without question, no “firsts” or other superlative terms will be used. As markers are intended to be permanent features of the landscape, please also avoid making observations in the text about current conditions of buildings or land. The text should be submitted with the understanding that it will likely undergo further editing and revision by VDHP staff in consultation with the applicant or original author.

Please remember that the marker may be read from a moving vehicle, so it is best to put the most important information at the beginning.

Placement of Roadside Historic Site Markers

1. The marker shall be placed on a state or town right-of-way as near as possible to the site it marks, at least 200 feet from the nearest adjacent sign.
 - a. VDHP shall coordinate with VTrans or the town garage regarding placement and installation.
2. Markers will not be placed on a curve or hill in such a place at which a slowing car could cause a traffic hazard. There should be a minimum of 500 feet visibility; 1200 feet is desirable.
3. Wherever possible the marker will be placed at a pull-off where an automobile will be able to park completely off the traveled portion of the highway. The pull-off should be 10 feet wide and between 200 and 400 feet long. The sign should be placed approximately 4 feet back from the pull-off.
4. The marker shall be located so that its post does not interfere with underground utilities. ("DIG SAFE")
5. Placement of markers on private property require a Memorandum of Agreement



Roadside Historic Site Marker Application Form

Proposed Marker Topic/Name:

Proposed Physical Location of Marker:

(Please include a map and photographs showing the proposed location for the marker.)

Physical address (e.g., 4588 Chester Arthur Road, 12 miles northeast of Fairfield):

Latitude/Longitude of location:

Town/City and County where proposed marker would be located:

Has the owner of the property associated with the event or person proposed for documentation by the Site Marker been consulted and concurred?

Who was consulted and by whom:

Date of consultation:

Proof of owner concurrence:



Is the proposed marker associated with a “mitigation” agreement stemming from a Section 106 environmental review or Act 250 project? If so, please provide details about who is involved with the project and the appropriate project codes.

When is the proposed date for an unveiling or dedication ceremony:

Applicant's Information:

Name:

Organization:

Address:

Email:

Telephone:

Author's Information: (if author of marker text is different from applicant):

Name:

Address:

Email:

Telephone:



Property Owner's Information:

NOTE: If the marker proposed is on a specific property or references a specific physical property beyond VTrans right-of-ways, VDHP needs the property owner's information and signature prior to reviewing the proposal.

Name:

Address:

Email:

Telephone:

Property Owner's Signature:



Proposed Text for the Marker: VDHP staff will work closely with the applicant, or the applicant's author, to produce a mutually agreed upon text. Because VDHP and the ACHP bear the ultimate responsibility for what appears on a marker, they reserve the right to edit a text for accuracy, clarity, brevity, and thoroughness. It must NOT exceed **765** letter and spaces (765 letter-spaces or 17 lines with 45 letters and spaces per line maximum). Use additional sheets as necessary.

Bibliographical Sources Consulted. Multiple primary and secondary sources are required. Please photocopy and attach each source. Each bibliographical source listed below should include the following information: author, title, and publisher, the publisher's location, and date of publication:



Send the completed application and supplementary materials in one package to:

Roadside Historic Site Markers

Division for Historic Preservation
National Life Building,
Deane C. Davis Building, 6th Floor
Montpelier, VT 05620-0501
laura.trieschmann@vermont.gov
802-828-3222

(VDHP use)

Submittal Date: _____

Recommended Reviewers: _____

Property Owner Concurrence: _____

Advisory Council Review Date: _____ Approval: yes _____ no _____

